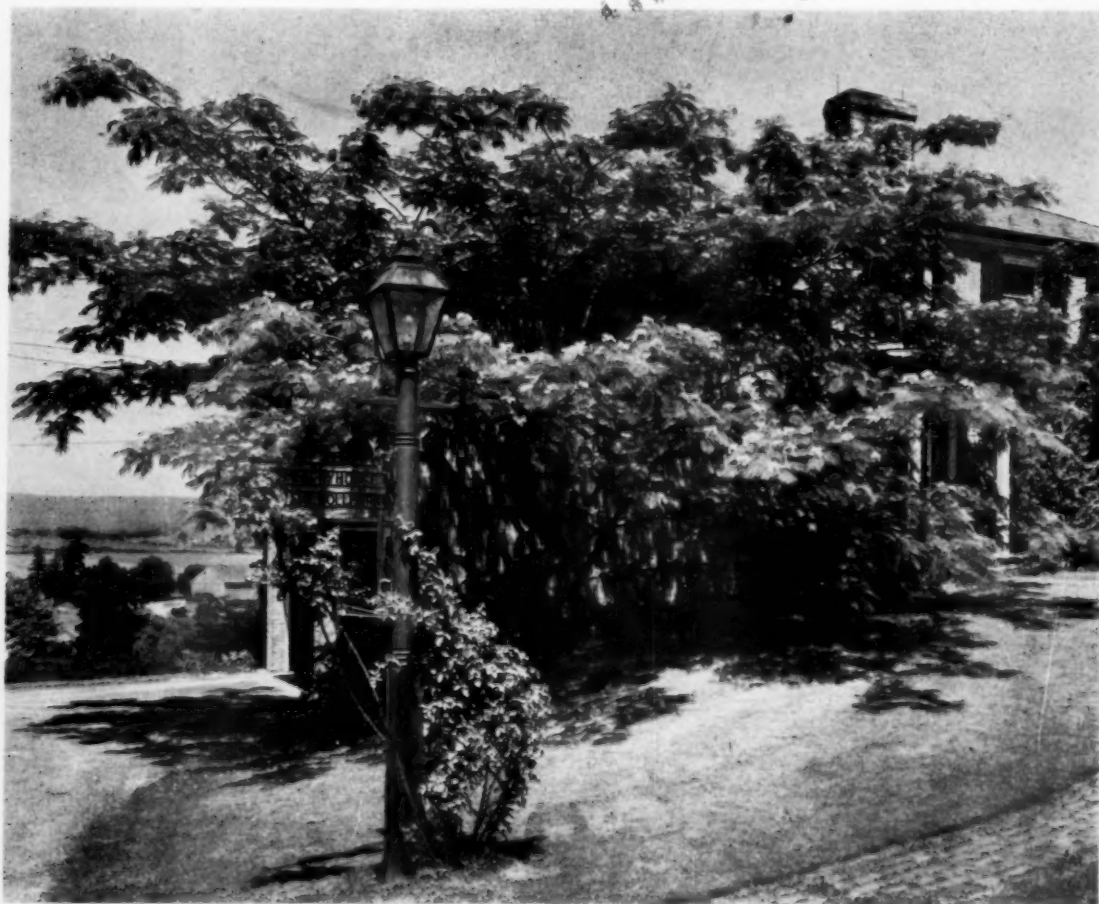


AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 1, 1949

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Mail copy to arrive at Chicago by that date—or earlier.

THANK YOU

For your part in making 1948 a good year for C. R. Burr & Company. It is our aim to continue to serve you in a manner that warrants your confidence. We hope that we may play a part in making the new year a successful one for you.

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C. R. BURR & COMPANY, Inc.

Manchester, Conn.

"Growing Since '98"



AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

HAPPY NEW YEAR!

While not wishing to risk the embarrassment of the poll-takers following the recent election, we are still inclined to test the direction of the wind by the way it blows straws, and scattering reports from nurserymen about their past year's business are generally quite favorable. No marked decline has been apparent, as in mercantile lines, and some quite respectable increases in volume have been admitted by the wholesalers. In view of the general tendency of nursery stock prices to hold their levels, with some readjustments on items that seem to have been pushed too high previously, such reports are more gratifying than if they depended on increases in prices.

Some landscape firms facetiously observe that spring planting was not completed until the ground froze last month. Orders, indeed, have for the most part been limited more by the labor supply than by the mood of the public. The complaint of some salesyard retailers is that their sales volume was restricted by the inability of the public to get garden help.

Since the supply of most trees and shrubs has not overtaken the demand, the growers' prospect is a pleasant one. The continuation of home building, plus the backlog of orders for renovating old plantings, offers a bright outlook to the landscape field. Nurserymen by and large understand the necessity for active selling, a fact that may offset the public's inclination to tighten purse strings and exercise selectivity, already demonstrated in fields where manufacturers quickly increased production to fill the wartime lack.

Hence there is commercial basis for that wish which the year-end festivities impel in a social and fraternal way. Besides, the bounty and the pleasure of past associations, coupled with the hope for fuller enjoyment in the wider contacts of the months ahead, give us full reason for the wish to all our reader friends for a most Happy New Year!

STUDY TRADE COSTS.

Some charts and tables on landscape nurserymen's costs in a recent issue have brought requests for more.

The Mirror of the Trade

The value of such data is well recognized, but the difficulty in obtaining it is not.

Although the American Nurseryman is regularly received, and presumably read, by over 7,000 nurserymen, and a large proportion of them are interested in cost figures, not many landscape men have their own and, of these, few have come forward with data.

The editor's interest in these matters is for the profit of the readers. He can obtain other reading matter for the magazine's pages much more easily than the aforesaid cost data, which are secured only by labor and procedures akin to the popular metaphor about pulling teeth. But when a reader's need is seen, the editor has sought a way to fill it. One simple way would seem to invite the readers themselves to contribute—for their own advantage. Such invitations have obtained meager response, but the replies, even when few, have revealed how beneficial would be a larger sharing of data.

So it is suggested by a reader generous in such contributions that the request for cost data be carried farther and, to overcome the inertia of those who hope to profit by letting George do the work, that copies of the results be provided only to those who contribute thereto. This method is reported to have been followed in an automotive magazine with excellent results. So, let's try it!

On page 10 is a half-page form carrying a questionnaire about platforms used for balled and burlapped trees. Those nurserymen or landscape contractors who use such platforms can fill it out easily and quickly. If some data are required from your books, it should not require more than a few minutes to secure them. By doing so, you can see how your methods and figures compare with other firms in the same line of work.

If you do not wish to tear the form out of your copy of the magazine, let your office typist copy it on a sheet of paper and fill it in.

The returns of this questionnaire will be tabulated and a copy of the results will be sent only to the readers who mail in their data. So be sure your name and address accompanies the questionnaire when returned.

If sufficient response is obtained to this one, other questionnaires on other costs will be presented. Your comments are in order.

DON'T FEAR BUYER'S MARKET

Change in the current market trend was the subject of recent comments by J. R. Davis, vice-president, sales and advertising, Ford Motor Co., that apply to nursery stock as well as to automobiles. He said in part:

"Has there ever been a par established for our automotive course? If there has been, I am unaware of it. Conditions have so changed year by year, at least since 1929, that new standards of accomplishment and objectives are being set each year. Consequently, I feel that we should not look back to the prewar period to seek either our goals or standards. And, by the same token, I don't think we should give so much weight to our actions of today based upon prewar facts.

"I think we should keep our eyes focused on the road we must now travel. We should make our decisions and plan our course based largely upon conditions as they are today, and as we believe they will be tomorrow—not on what they were yesterday, or any other time in the past.

"Unfortunately, there are too many who believe that today's selling conditions will last for a long time. Consequently, too many of us are not adjusting ourselves and our businesses to meet these new market conditions.

"We have made a long trip together in the strongest of all seller's markets. It has been an exciting, interesting and profitable trip. But now we are headed back, and we have got to be prepared for a rugged journey. We will have no tail wind to accelerate our speed. And when we do get back, it will not be the same as it was in 1940 or 1941. Too many things have changed. People have changed; people's philosophy of buying on prices and quality has changed; markets have changed. The population has increased and shifted—there are nearly ten million more people in this country than there were before the war. Educational, living and entertainment standards all have changed—and they are continuing to change daily.

"But because of these changes, let's not fear a buyer's market. It seems to me that we should welcome a return to a buyer's market. There is no question, in my opinion, that it is a healthier climate to work in. Don't forget we did all right in the past."

Minnesota First of State Conventions

The retiring president of the Minnesota State Nurserymen's Association, Robert Wedge, was honored with the Minneapolis Star and Tribune award for leadership in Minnesota, presented at the twenty-third annual convention of the association, held at the Hotel Radisson, Minneapolis, December 13 and 14. The award, made in recognition of his long-continued contribution to the upbuilding of the state, consisted of a pendant inscribed "For Leadership in Minnesota" and a framed certificate reading: "In Recognition of Leadership in Minnesota. Whereas Robert Wedge as president of the Minnesota State Nurserymen's Association has given a service to Minnesota that has added to this state's supremacy as a place in which to live and work, has brought additional respect to his organization and has enhanced his own prestige as a citizen, the Minneapolis Star and Tribune present to him this Leadership Award."

At the election of officers December 14, Kenneth B. Law, Jewell Nurseries, Inc., Lake City, was advanced to president; Harold Reid, Holm & Olson, St. Paul, who has served as treasurer for some years, was elected vice-president and also reelected treasurer, and R. N. Ruedlinger, Ruedlinger Nursery, Minneapolis, was reelected secretary.

The board of directors is composed of W. J. Miller, St. Paul; J. E. Swedburg, Battle Lake; Terry Cashman, Owatonna; W. A. Coupanger, Elmore; Russell Zackariason, Minneapolis, and Robert Wedge, Albert Lea, ex officio.

Zone State for Ornamentals.

Two subjects close to nurserymen's interests, one programmed and one

not, occupied the major portion of the opening session of the convention. Dr. L. C. Snyder, extension horticulturist of the agriculture department, and Ray Wood, assistant extension forester, University of Minnesota, told of the considerable progress in zoning trees and shrubs for landscape use in the state. Then Henry Hansen, instructor in forestry at the university, was asked to report on a survey as to causes of the severe winter injury of last season, and his report proved a thorough exposition.

Only a year ago an Illinois project gave the suggestion that trees and shrubs for landscape planting might be recommended to the Minnesota public according to climatic zones, to produce better results in survival in a region where hardiness is a problem. Dr. Snyder reported that a questionnaire listing 250 species or varieties of trees and shrubs was distributed to obtain the necessary data. Four hundred copies went out over the state, to nurserymen, county agricultural agents, foresters, soil conservation service men and representatives of garden groups. Return of twenty-five per cent, or about 100 questionnaires, was considered a notable mark of interest.

The data so obtained were checked with what information on hardiness could be found in books. Then a committee of forestry, horticulture and extension men at the university discussed the list. Sample sheets of the recommendations were presented at the nurserymen's meeting. Debatable species received attention from the floor, with explanations from Dr. Snyder and Ray Wood that showed how much thought had been put on the project.

Whereas Minnesota is divided into five zones for the fruit recommendations of a committee of the state horticultural society, the division for ornamental trees and shrubs was into three, each of approximately one-third of the state, with another called 3a to include the Red river valley, where the open areas, alkaline soil and poor drainage create special problems of hardiness. Zone 1 covers the southern third of the state to a slightly curved line running westward from the Twin cities. Zone 2 covers the middle third of the state and a narrow strip along the northern shore of Lake Superior. Zone 3 runs northward from the latitude of the Detroit lakes and is somewhat larger than either of the two southern zones.

Some discussion ensued about a zone 1a to extend along the Mississippi river from the Twin cities southward. The speakers said their hope was to arrive at zones which could be used for fruits and ornamentals alike. When preliminary recommendations were set, they said, perhaps a committee of the Minnesota Horticultural Society would carry on the project, like the committee on fruits now well established.

In discussion from the floor of the hardiness of certain species, emphasis was made of the fact that much depended on the source of the seeds. Propagating nurserymen are well aware that such is the case. Retailers of nursery stock in areas where hardiness is a problem should be alive to it, for the public can only inquire the source when it buys.

Winter Damage.

Few in the audience expected so thoroughgoing a report on winter damage when Henry Hansen was called to the platform to conclude the session. Besides having interest in the subject from his work at the University of Minnesota, he was appointed chairman of a committee of the Society of American Foresters to investigate and compile findings on the causes of last winter's devastation. Nothing so severe nor widespread of this sort of injury had occurred in the memories of old-timers among nurserymen or foresters. His data came from observations of his own, the university farm staff, foresters and field forestry personnel over a wide area.

Damage to evergreens occurred over a region stretching from the Dakotas to Ontario and southward to



Robert C. Wedge.



Kenneth B. Law.

northern Iowa and northern Illinois. It affected forest areas as well as nurseries and home grounds plantings. In the latter were first observations of injury, reported early in February, 1948, in the form of reddish-brown needle discoloration.

Primarily the injury was to the 1947 crop of needles. Older needles were not commonly damaged, said Mr. Hansen; if they were, all the needles, old and new, were killed.

It was not universally true that the south side of the trees were most injured or that exposure, as on the outer side of a plantation, was consistently responsible. Genetics, said Mr. Hansen, seemed to have more to do with the comparative effect on neighboring trees than exposure.

Most severely injured, said Mr. Hansen, were concolor fir, Austrian pine, blue spruce, ponderosa pine, Douglas fir and Mugho pine. Less severely affected were white pine, white cedar and Norway spruce. Least damaged were jack pine, Black Hills spruce, balsam and black spruce. Prostrate junipers were usually covered by snow and so protected.

Striking genetic differences occurred within species. Studies with Scotch pine in forestry plantings emphasized the importance of seed source. No damage was done to trees grown from seeds that came from Scandinavia and the Baltic area, while trees produced from German seeds were badly damaged. Planted trees survived less than natural forest growth, regardless of seed source.

Recovery of evergreens has been quite good except in the case of trees severely damaged. This is truer of forest growth than ornamental plantings. Adequate rainfall in Minnesota the past summer favored this recovery.

Explanation for the widespread and unusual damage, according to Mr. Hansen, probably lay in a succession of climatic occurrences, rather than in any one factor. First, a record-breaking long and warm autumn delayed maturity or hardening of plant growth. October, 1947, for instance, produced the highest temperatures for that month on record at the Twin cities, and only twice did the temperature descend to 40 degrees at night. Second, sudden change from high temperature came with snow and subfreezing weather, from 10 to 30 degrees, November 6 to 8, 1947, over the area described above. The prevalence of this storm and the winter injury seem to coincide.

Not applicable to the whole region was a third factor, an unusual amount of midwinter sunshine, which raised the temperature of ex-

posed needles on evergreens. Fourth, a pronounced mild spell occurred in the middle of February, when reports of discoloration were noted, though some came earlier.

If damage physiologically is done to plant growth in the thawing out process, rather than in freezing, as some scientists have averred, then the February thaw might be held responsible. Where snow protection occurred, as about the lower branches of trees, thawing was delayed and damage prevented.

The lessons, said Mr. Hansen, were to avoid planting the species most damaged and to seek seeds from northern sources.

Public Policies.

The earlier portion of the afternoon program, which followed an opening luncheon, was no less interesting if not so closely horticultural. Mrs. A. N. Satterlee, vice-president and manager of Consumer Interest of Minneapolis, spoke on "How to Give Your Consumer Dollar More Sense." Her theme was that complaints of high prices, unfair profits and our economic system generally could be avoided or alleviated by businessmen, among others, explaining the value of their various forms of merchandise in terms of cost.

If the nurseryman, for example, would show the public, in catalogs and other advertising, the time and labor involved in the production of his plants, from the gathering of the seeds and the period in the seedbed, through the lining-out process, the land preparation, cultivating, spraying, harvesting and grading, to the packing and shipping, reselling and planting, the shrub that sold for a few dimes and the tree that sold for a few dollars would seem inexpensive to the public. But when the customer thinks nature did all the work, for the nurseryman's profit, complaints and misunderstandings occur.

Mrs. Satterlee used shoes for her example, not nursery stock, to impress her hearers that the American way of life can be demonstrated as the best, to laborer and customer, by commercial enterprises as well as teaching agencies and public institutions.

In similar vein, Rev. Philip McNairy, rector of Christ church, St. Paul, speaking on "Our First Line of Defense," pointed out that this was not the military armament on the periphery of our country, but our treatment of those elements in our population who have reason to complain. Foreign propaganda, he asserted, can produce results only among those persons who are denied the

privileges of American citizens, whether on account of race, religion or economic circumstances. Rarely has so effective and forceful a speaker appeared before a nurserymen's convention as this 35-year-old clergyman, whose metaphors were the more forceful for springing from his summers of work in the fields of the Jewell Nurseries, at Lake City, Minn., during his high school years.

Opening Business.

In opening the convention, Robert Wedge ignored the item of president's address in the program. Before introducing the speakers mentioned above, he appointed auditing and nominating committees, then calling for the treasurer's report.

Harold Reid, with his perennial brevity, indicated prosperity by reporting \$1,337.18 income and \$1,098.38 expenses, with a resultant \$1,346.29 on hand. Reading the list of members who had paid their dues, he reported eighty-eight in good standing.

Banquet.

On the evening of December 13 was held a banquet, capably arranged by a committee consisting of Vernie Johnson, Walter Niehaus and Gordon Bailey. The toastmaster was E. L. Hibbard, editor of the Lake City Graphic, and the speaker of the evening was R. A. Trovatten, commissioner of agriculture of the state of Minnesota, whose concern with conservation and whose interest in the nurserymen's affairs have brought him more than one return engagement before the organization. The evening concluded with a floor show. An unprogrammed feature was the showing of a colored motion picture of the route westward to be taken on the special train of the American Association of Nurserymen by members bound for the San Francisco convention. W. J. Smart, A. A. N. transportation chairman, showed this film and then treated the Minnesota nurserymen to still another film at the afternoon session the following day.

Entomologist's Report.

The morning session December 14 was confined to members, for the discussion of problems of primary interest to Minnesota nurserymen.

Thor L. Aamodt, state entomologist, gave a rapid survey of the pest and quarantine situation. He discussed the development of the bureau of inspection since he became state entomologist. From nursery inspection only, it has grown to in-

[Concluded on page 56.]

Soils Featured Topic at Milwaukee

By Thomas S. Pinney, Secretary

In spite of rain, sleet and some snow, the thirty-second annual convention of the Wisconsin Nurserymen's Association, which was held at the Hotel Schroeder, Milwaukee, December 15 and 16, enjoyed a good attendance. The registration was exactly the same number as the previous year, which was seventy-four. However, there were a few less at the luncheon and banquet than last year, undoubtedly because members brought fewer guests.

R. C. Pippert, Cleveland, Wis., was elected president; L. L. Kumlien, Janesville, vice-president; Max Singer, to fill the unexpired term of L. L. Kumlien on the board of directors, and J. P. Foster, as a new member of the board of directors, with Ed Eschrich, who will be a member of the board of directors for the ensuing three years, ex officio.

Al Monroe, of the Milwaukee chamber of commerce, the same gentleman who so ably assisted at the A. A. N. convention at the same hotel last summer, opened the convention with an address of welcome. President Eschrich in his address thanked the membership for the hearty cooperation shown him during his entire term in office.

After routine matters such as the secretary's report and the appointment of auditing and nominating committees, considerable discussion was had in regard to the state nurseries and their rapid expansion in Wisconsin. William Brenner, superintendent of the state nursery, was present at the request of the association, and firsthand information was secured in regard to the state activities. Mr. Brenner stated that there were one and one-third million acres that needed tree planting in Wisconsin. He mentioned that the state nurseries were furnishing trees to private sources for windbreaks, wood lots and Christmas tree planting.

Those who attended the luncheon had a real treat in the address of H. J. Gramlich, of the Chicago & North Western railroad, who spoke on "What's Ahead?" Mr. Gramlich's philosophy was not only fundamental and basic, but his presentation was unique, and one which held the interest of the group completely. Mr. Gramlich stated that all good things originally came from the soil and that, when those who produce from the soil are prosperous, they need and look to the nurserymen for the pur-

chasing of trees and plants for spiritual food. Mr. Gramlich had about a dozen horticultural and agricultural products, each one of which he tied in with his talk in a most interesting manner.

A. D. Slavin, of the United States Soil Conservation Service, discussed soil management with the aid of his left-handed chalk and the blackboard. He vividly described several types of soil management and crop rotation with respect to the growing of nursery stock. Everyone present secured valuable information and had



R. C. PIPPERT.

R. C. Pippert, newly elected president, and past vice-president and director of the Wisconsin Nurserymen's Association, followed several careers before assuming his present position as head of Pippert Nurseries, Inc., Cleveland, Wis.

Born March 23, 1890, in Sheboygan county, Mr. Pippert attended the local schools and worked on his father's farm until the age of 24. At that time he went into a wholesale and retail meat business which he operated for twenty-five years. While operating this business he became interested in horticulture and started a 5-acre orchard and later planted a few hundred evergreen seedlings as a hobby. In 1939 Mr. Pippert turned the management of the meat business over to the eldest of his four sons and thereafter devoted his entire time to the management of a nursery and orchard which had meanwhile developed from a hobby to a business. At the present time the nursery covers 100 acres, of which thirty acres are planted in general nursery stock, fifteen acres are an orchard and the remainder is used for the propagation of small fruits and fruit trees. He is being assisted by three sons who have taken over the field work.

Mr. Pippert's outside interests include bowling, hunting and, above all, fishing at his cottage at Eagle River, Wis. The firm holds membership in the American Association of Nurserymen as well as in the state association.

his soil management thinking affected by Mr. Slavin's talk.

Dwight Forsythe and H. Halliday, of the Wisconsin state department of agriculture, discussed weed control and recent developments in nursery pest practices. Mr. Forsythe stated that there were 18,000,000 acres treated with some type of weed control in the United States last year, and because there was a somewhat indiscriminate use in some cases, unsatisfactory results and some damage occurred. He stated chemical weed control was satisfactory and had tremendous possibilities if used with proper knowledge and precaution.

In his discussion of recent developments in nursery pest control, Mr. Halliday stated that there was much research being done today that was more or less futile and of little or no value. He felt that the aim of all research men, particularly along his lines, should be "Better Things for Better Living." He stated that since the war science was indeed on the march and new products were being tried and tested in great quantities.

A few days before the convention the officers were informed that K. W. Haagensen, public relations director of Allis-Chalmers Mfg. Co., who was to have been the guest speaker at the banquet, was unable to come because of a conflict of appointments of which he was not previously aware. His place was ably filled by Jens Jensen, of the Clearing, Ellison Bay, who gave his usual inspirational and interesting discussion of the nurserymen's responsibilities, with that mellow philosophy so characteristic of Mr. Jensen. The Fraunfelder family, a group of two sisters, father and son, who are nationally known Swiss entertainers, gave a sparkling and tremendously interesting 40-minute entertainment at the banquet.

Thursday morning, John R. Borchert, of the University of Wisconsin, opened the session with a discussion on drought and weather prediction. Mr. Borchert explained that not until recent years was it definitely learned that practically all the moisture for the middle west was originally borne on northwest winds originating in the tropical Atlantic, coming across below Florida, up the Gulf of Mexico and up the central part of the country, there to be deflected by prevailing westerly winds. Many new points and factors in

weather prediction were described by Mr. Borchert.

A colored movie film showing the making of paper and the reforestation of cutover land for future pulpwood was shown by Howard Anderson, of the Nekoosa-Edwards Paper Co. It was a masterpiece in color filming.

Facts and fallacies about soil management were discussed by Prof. E. Truog at the opening of the Thursday afternoon session. Professor Truog stated that Faulkner's "Plowman's Folly" was a philosophy of soil management that might hold true under some conditions, but under most conditions was not a practical or advisable procedure. Mr. Truog stated that there were fifty billion acres of land on earth, with only four or five billion acres producing food. He stated that with proper soil management and control twenty billion acres could be made to produce.

Highway planting as described by Albin Gries; of the Illinois state highway department, together with his colored slides, gave a concrete example of what the department is doing and hopes to do in the state of Illinois. Mr. Gries had many before and after pictures, which illustrated his points and proved that the state of Illinois was really making big

strides in highway planting and showed that Wisconsin was sadly in need of rejuvenation of its highway planting program.

LOUISVILLE ELECTION.

At the annual dinner meeting of the Louisville Retail Nurserymen's Association, December 8, at Preston Kunz's restaurant, Louisville, Ky., the following officers were reelected for the fourth consecutive season: President, Carl Ray, Carl Ray Co.; vice-president, B. C. Diebel, Cherokee Tree Expert Co., and secretary-treasurer, Mrs. Grace Kingsley Walker, of the Kingsley Walker Co.

CLOVERSET COLOR MOVIE AVAILABLE FOR MEETINGS.

The 16-mm. color movie which Cloverset Flower Farm, Kansas City, Mo., showed at the American Association of Nurserymen convention last July at Milwaukee, depicting Cloverset merchandising methods, is available free of charge for showing at nurserymen's association meetings.

Made during the 1948 spring season at Cloverset Flower Farm, the film shows how plants were potted, cared

for and merchandised the past season, when over 70,000 rosebushes, shrubs, vines, perennials and other plants were retailed at cash-and-carry by Cloverset Flower Farm. The Cloverset method takes advantage of the planting urge which the public does not get until after the dormant season is over and gives the public growing, blooming plants which can be transplanted without loss or harm at any reasonable time in late spring, summer or fall. The method also is based on the advantages of more beautiful-appearing nursery stock which should be worth more and sell for more than dormant plants.

Any association interested in showing this film should contact Kenneth Haysler, Cloverset Flower Farm, One Hundred Fifth street and Broadway, Kansas City 5, Mo.

A NOTICE of incorporation has been filed by Russel Davidson and W. E. Davidson for Davidson Nursery & Greenhouse, Inc., Hastings, Neb.

THE new name and address of Babcock Gardens, Jamestown, N. Y., are the Garden Spot, 374 East Fairmount avenue, Lakewood, N. Y., whose proprietor is Arthur Steward.

QUESTIONNAIRES ON TRADE COSTS

This is the beginning of a series of questionnaires pertaining to the nursery and landscape fields. In these days of high overhead perhaps we can cooperate to help one another keep costs down. Your cooperation in jotting down your experiences and returning these questionnaires will be rewarded with a complete tabulation of the combined experiences of all others who reply (see page 6.)

QUESTIONNAIRE No. 1—Platforms Used for B&B Trees

1. Approximately how many platforms do you keep in stock?_____
2. Do you make your own_____ or have them made outside?_____
3. All wood construction?_____ Wood and metal?_____ Other?_____
4. Square?_____ Round?_____ Octagonal?_____ Some other shape?_____
5. What do you use for rope ties at the corners? Metal rings_____ Galvanized wire_____ Something else?_____
6. What do you estimate platforms cost you to make or buy?

Sizes	Costs
_____	_____
_____	_____
7. Do you mark your platforms for identification? Metal tags_____ Burned brands_____ Some other means?_____
8. If you sell trees with platforms under them to other nurserymen or landscape contractors, do you charge for them on the invoice and credit it when they are returned?_____ Make no charge_____ Some other system?_____
9. How do you get most of your platforms back? Pick them up with your trucks?_____ Customer returns them with his trucks_____ By freight_____ Some other way?_____
10. At what sum do you value the platforms you lose annually?_____
11. Any comments you care to make concerning how you think overhead and losses on platforms might be reduced?_____

Western Pennsylvania Annual Meeting

By R. P. Meahl

The Western Pennsylvania Nurserymen's Association held its annual meeting December 8 at the Webster Hall hotel, Pittsburgh, with almost 100 nurserymen present. The new board of directors elected at the meeting includes Louis E. Wissenbach, John M. Eisler, M. W. Hinn, Walter Morrow, Andrew Palombo, Charles Zimmerman and Roy Breidenbach. The new officers of the association will be selected from the above-named directors.

In view of his retirement December 31, Dr. E. I. Wilde, for many years in charge of the work in ornamental horticulture at Pennsylvania State College, was honored. He received a fitting gift from the nurserymen in recognition of his long years of service to growers of ornamental materials and to homeowners of the state. He had been on the faculty since 1912.

R. P. Meahl, professor of ornamental horticulture, Pennsylvania State College, was the first speaker on the program. His topic was "Plant Materials." Professor Meahl suggested several plant material combinations for borders or foundations. He stressed the importance of using materials that have long periods of attractiveness. No longer should one be content with plants that are attractive only during a short blooming period, but rather, one should choose plants whose foliage is attractive throughout the season, plants with good fall color, those with showy flowers and those with attractive fruit that persists for a long period.

Among the combinations suggested were *Euonymus alatus*, winged euonymus, and *Taxus cuspidata* var. *ana*, dwarf Japanese yew. The euonymus foliage is good throughout the summer months and is especially showy in the autumn when it turns bright red. The corky ridges on the twigs make the plant an interesting subject even after leaf fall. The dwarf Japanese yew is always desirable and makes a dark mass at the base that is particularly effective in the fall when grouped with euonymus.

Another combination is *Carpinus caroliniana*, American hornbeam, with *Taxus cuspidata*, spreading Japanese yew, at the base. This makes a planting which has considerable height but which can be used at the corner of borders or in foundation plantings around large public buildings. The combination of *Cor-*

nus florida, flowering dogwood, and *Euonymus fortunei carrierei*, glossy wintercreeper euonymus, is another that can be used in the same manner. The dogwood is one of the finest plants available and is attractive in foliage, flower and fruit. This group is showy in the autumn.

An even taller combination is one composed of *Betula pendula gracilis*, cutleaf weeping birch, as the tall plant, with *Cornus florida* planted at the base as the shorter plant. This grouping is especially good for fall effects, with the bright red foliage of the dogwood making an excellent contrast with the light yellow foliage and the white bark of the birch.

Photinia villosa, Oriental photinia, and any spreading evergreen, such as *Taxus cuspidata* or *Rhododendron carolinianum*, make a desirable grouping. This photinia has attractive white flowers borne in thick clusters, and these are followed by bright red berries which remain on the plant late in the year. It is not unusual for the photinia fruit to remain on the plant and be in good condition to January 1.

Viburnum prunifolium, blackhaw viburnum, is an excellent plant for the tall portion of a grouping in which dwarf Japanese yew; *Rhododendron catawbiense*, Catawba rhododendron, or *Azalea rosmarinifolia*, snow azalea, forms the lower mass at the base. The foliage of the viburnum is shiny and attractive throughout the summer and turns purplish-red in the fall. The creamy-white flowers are borne in flat clusters in June. The fruits progressively change from green to pink, then to reddish-purple and eventually to black. Often, all stages of fruit coloration are present at the same time. The snow azalea and the Catawba rhododendron are especially attractive in flower, but are good at other times as well, since their dark green foliage remains the year around.

Viburnum dilatatum, linden viburnum, and one of the spreading evergreens, either narrow-leaved or broad-leaved, make a good grouping where less height is desired, the viburnum usually not exceeding eight or nine feet in height. *Leucothoe catesbaei*, drooping leucothoe, is a suggestion for the base portion of this combination. The linden viburnum has dark green foliage, and its creamy-white flowers that appear during the middle of June are borne in flat clus-

ters. The fruits are bright red berries which are borne thickly and remain on the plant in good condition until late in the fall or early winter. The leucothoe blooms early with small white flowers. The habit of the plant is arching and spreading, which makes a low informal mass. The foliage, although remaining on the plant over winter, often takes on a purplish-green color.

Other combinations especially desirable for acid soil conditions are *Lindera benzoin*, spicebush, with *Rhododendron catawbiense* or *R. carolinianum*; *Ilex verticillata*, winterberry, with *Pieris japonica*, Japanese pieris, and *Ilex opaca*, American holly, with *R. carolinianum* or azalea varieties. The spicebush foliage, which turns a clear yellow in the fall, and the small yellow flowers in the early spring form a bright contrast with the dark green foliage of the rhododendron. The winterberry is especially valued for its red berries which remain on the plant almost all winter. The Japanese pieris blooms early with small drooping clusters of white flowers. However, the next year's flower clusters are formed during the summer and take on a reddish color that contrasts well with the foliage for the entire winter. Both the American holly and the rhododendron have evergreen leaves, but the combination is livened up by the showy flowers of the rhododendron in the spring and by the red berries of the holly in the fall and winter.

Professor Meahl pointed out that the combinations mentioned were by no means a complete list but were merely a start. However, he felt all those mentioned fulfilled the requirement of having a long period of usefulness and attractiveness. He illustrated his talk with branch specimens of the various plants and Kodachrome slides.

The next speaker was Dr. L. C. Chadwick, department of horticulture, Ohio State University, whose topic was "Taxus." Dr. Chadwick presented a list of the better taxus and divided them into five types as to habit of growth.

In the first group, the creeping types, he described *T. canadensis*, Canada yew, as a fairly good plant but almost the only taxus of this type and said that there was need of a better form.

The second group, low types, one to three feet tall, he divided in four

subgroups. In the first, spreading with drooping branchlets, he especially recommended *T. baccata repandens*, spreading English yew, a fairly hardy form but one which may show some winter injury and may need to be planted in protected areas.

In the second subgroup of low types, dwarf, compact, rounded or globose types, he described *T. cuspidata densa*, cushion Japanese yew, as a good plant but quite slow in growth. The foliage is dark green. *Taxus media wardi*, Ward Anglojap yew, a fairly new form but one showing much promise, was especially recommended. It may eventually replace *T. cuspidata nana*, since it is a faster grower and has a better color. It is slightly flat-topped.

In the third subgroup of low types, dwarf, compact and flat-topped types, Dr. Chadwick placed *T. cuspidata nana*, dwarf Japanese yew, and said it was still a good type, but was wide spreading if not pruned.

In the fourth subgroup of low types, dwarf, compact, rectangular types, he named *T. canadensis stricta*, dwarf Canada yew, as a form which can be used in a low hedge, but will winter burn.

The third group of small types, four to six feet tall, was divided into three subgroups. In the first, slow-growing, bushy, upright-spreading types, four *taxus* were listed, including *T. cuspidata aurea*, goldtip Japanese yew, a good off-color type. *T. cuspidata intermedia*, intermediate Japanese yew, a good seller Dr. Chadwick especially recommended (there are many types in the trade under this name, but the original was a dwarf bushy plant about four x five feet); *T. media browni*, Brown's Anglojap yew, one of the best slow-growing forms, about five feet in height and four feet in width, with the leaves quite whorled, and *T. m. cliftoni*, Clifton's Anglojap yew, a new type which is little known but which is showing considerable promise. It grows five feet high and four feet wide, forming a broad pyramid. The needles on the early yearly growth are short, about one-half inch long, but are longer on later growth. There is some foliage burn in winter. Especially recommended in this subgroup was *T. m. kelseyi*, Kelsey Anglojap yew, a form with dark green foliage and one which is supposedly better fruiting. And *T. m. wellesleyana*, Wellesley Anglojap yew, was described as a good type but not outstanding.

Two varieties were described in the subgroup of small types, four to six feet tall, of more rapid-growing, broad, bushy, upright-spreading

types. One, *T. cuspidata expansa*, spreading Japanese yew, is a type which can be eliminated and replaced by *T. c. intermedia*, and the other, *T. media andersoni*, Anderson's Anglojap yew, is one of the most rapid-growing types, almost as fast-growing as Pfitzer juniper. It really grows too fast and cannot be used in a restricted area. It is the same plant that is sometimes listed as *T. m. thayerae*.

Narrow, upright trees in this size group include *T. baccata fastigiata*, Irish English yew, which is one of the narrowest, but it winter burns and should be used only in protected areas; *T. cuspidata columnaris*, col-



Walter W. Truby.

umn Japanese yew, sometimes known as Adams' yew, which should be planted in fairly fertile, well drained soil, or it will have yellowish foliage, and which tends to become leggy, and *T. cuspidata ovata*, Ovata Japanese yew, a new type which looks good and is seemingly hardy, although it shows some winter burning. It is nearest the Irish yew but is hardier. And last in this group is *Taxus media hicksi*, Hicks' Anglojap yew, possibly the best of the narrow types and one which is exceptionally hardy.

The better medium types, six to ten feet tall, were divided into two groups by Dr. Chadwick. For broad, pyramidal types he described *T. cuspidata capitata*, upright Japanese yew, as an excellent and reliable form, especially recommended, and *T. media hatfieldi*, Hatfield's yew, as a broad, pyramidal type, somewhat like *T. c. capitata*. It is a slow grower and suffers some winter injury.

The broad, bushy type in this group of medium size, *T. baccata washingtoni*, Washington English yew, can be written off, Dr. Chadwick said.

[Continued on page 61.]

WALTER W. TRUBY.

Walter W. Truby, president of the Ohio Nurserymen's Association, owns and operates the Tri-State Nurseries, Ironton, O.

Born December 1, 1900, at Ironton, Mr. Truby has spent the greater part of his life in that vicinity, except for the period when he attended preparatory school in Indiana and when he attended New York University, where he majored in chemical engineering. After his graduation from the university, Mr. Truby was employed by the United States Steel Corp., Pittsburgh, Pa., but at the end of one year, an attack of typhoid fever forced him to return to his home to recuperate.

Instead of returning to Pittsburgh, Mr. Truby decided to go into business for himself, and in 1925 he opened the Walter W. Truby Haberdashery.

In 1926 he married Lucille Capper, daughter of Mr. and Mrs. Brook Capper, Ironton, and in 1931 Mr. Truby sold his haberdashery and went to work for his father-in-law, who at that time owned the Tri-State Nurseries. Ten years later Mr. and Mrs. Truby became the owners.

Established in 1929 by Mr. Truby's father-in-law, Brook Capper, who had been forced to retire from his own business because of ill health, the Tri-State Nurseries became the property of Mr. Truby when Mr. Capper's health improved sufficiently to allow him to return to his former activities as a banker.

Located in a beautiful setting on the bend of the Ohio river in the extreme southern part of Ohio, just across the river from Kentucky and West Virginia, the Tri-State Nurseries are four miles west of Ironton. A general retail nursery and landscape business is conducted chiefly at Ironton and Portsmouth, O., Ashland, Ky., and Huntington, W. Va., with some wholesale trade to local landscape architects. In addition to Mr. Truby's activities in the Ohio Nurserymen's Association, his firm holds a membership in the American Association of Nurserymen.

Situated on the landscaped grounds of the nursery, the Trubys' large white brick home, which is more than 150 years old, faces the Ohio river. Mr. and Mrs. Truby have one daughter, Sally, who was married March 16, 1947, to John Robert Click, a horticultural student at Ohio State University.

MAURICE E. DEVENDORF recently began the Cazenovia Landscape Service, at Cazenovia, N. Y.

LINING-OUT STOCK -- SPRING, '49 — A stock well grown and grade 'A' GRAFTS

Freshly grafted this winter on well rooted understocks potted last spring or fall in 2 1/4-in. rose pots. Size indicated is size of scion.

	Each	Each
	10 to 24	25 to 300
Acer pal. atropurpureum , 10 to 15 ins.	\$.85	\$.70
Acer pal. Burgundy Lace , burgundy-red leaves gracefully laced. Proved hardy, and a sturdy grower, 8 to 10 ins.	1.25	1.00
Acer pal. oshii-beni , 10 to 15 ins. ....	.85	.70
Biota aurea nana , 8 to 10 ins. ....	.35	.45
Cornus fl. plena , 8 to 10 ins. ....	.80	.65
Cornus fl. rubra , 10 to 15 ins. ....	.75	.60
Cornus kousa chinensis , 10 to 15 ins. ....	.80	.65
Fagus syl. asplenifolia , 10 to 15 ins. ....	.80	.65
Fagus syl. fastigiata , 10 to 15 ins. ....	.80	.65
Fagus syl. purpurea , 10 to 15 ins. ....	.80	.65
Fagus syl. purpureo-pendula , 8 to 10 ins. ....	.80	.65
Fagus syl. riversi , 10 to 15 ins. ....	.80	.65
Fagus syl. Tricolor , 10 to 15 ins. ....	.80	.65
Hamamelis jap. flavo-purpurea , 10 to 12 ins. ....	.80	.65
Hamamelis jap. zuccariniana , 10 to 12 ins. ....	.80	.65
Hamamelis mollis , 10 to 12 ins. ....	.80	.65
Hamamelis mollis , 10 to 12 ins. ....	.80	.65
Laburnum vul. vossii (Golden Chain), 6 to 8 ins. ....	.75	.60
Rhododendron Hybrids ....	.90	.80
Alum Elegans , white E. S. Rand, bright scarlet		
Catawbiense Alum , white Mrs. C. S. Sargent, pink		
Charles Dickens , red Roseum Elegans, rose-lilac		
Drosselhuys , aniline red		
Tsuga can. compacta , 8 to 10 ins., slow-growing ....	.90	.75
Tsuga can. pyramidalis , truly pyramidal, tall, good grower, good color	1.00	.85

ROOT GRAFTS

Malus , Flowering Crab Apple, ....	.15	.10
atrosanguinea , loensis plena, scheldeckeri		
floribunda , sargentii, spectabilis		
Prunus , Flowering Jap. Cherry, ....	.20	.15
Amanogawa , pyramidal, agle, pink		
Shidare-higan , weeping, agle, pink		
Kwanzan , dble, pink		
Mount Fuji , dble, white		
Yoshino , agle, pink		
Syringa , French Hybrid Lilac, ....	.20	.15

SINGLE

Bluish: Ambassadeur , Diplomate , Pres. Lincoln	
Lilac: Hugo Koster	
Magenta: Congo , Marchal Foch , Ruhm von Horstenstein	
Pinkish: Lucie , Reifet	
Purple: Monge , Ludwig Spaeth , Etna	
White: Jan Van Tol , Vestale	

DOUBLE

Bluish: Duc de Massa , Pres. Grevy	
Lilac: Victor Emmanuel , Henri Martin , Leon Gambetta	
Magenta: Comte de Berchou , Mrs. Edw. Harding	
Pinkish: Mme. Antoine Buchner , K. Havemeyer	
Purple: Stadgartner Rothpletz	
White: Edith Cavell , Ellen Willmott	

ROOTED CUTTINGS

Hormone treatment assures abundant, strong, pliable roots for safe shipping. Sized for your protection.

	Each	Each
	25 to 299	300 up
Ilex crenata (selected), 6 to 8 ins.	\$.08	\$.07 1/2
Ilex crenata convexa (bullata), 6 to 8 ins. ....	.08	.07 1/2
Ilex crenata latifolia , 6 to 8 ins. ....	.08	.07 1/2
Ilex crenata retundifolia , 6 to 8 ins. ....	.08	.07 1/2
Ilex glabra , 6 to 8 ins. ....	.10	.09
Ilex opaca pyramidalis , tall pyramid, hardy, semi-glossy leaves, profuse red berries ....	.15	.14
Ilex opaca (male), (Only with pyramidalis above—not more than 25.) ....	.12 1/2	...
Retinospora plumosa aurea , 6 to 8 ins. ....	.09	...
Retinospora plumosa aurea , 6 to 8 ins. ....	.09	...
Taxus cuspidata , 6 to 9 ins. ....	.08 1/2	.08
Taxus cusp. brevifolia , 6 to 8 ins. ....	.09	.08 1/2
Taxus cusp. capitata , tips only, 4 to 6 ins. ....	.08	.08 1/2
Taxus cusp. densiformis , 4 to 6 ins. ....	.10	.08 1/2
Taxus cusp. densiformis , 4 to 6 ins. ....	.10	.08 1/2
Taxus cusp. intermedia , 6 to 8 ins. ....	.09	.08 1/2
Taxus cusp. media , 6 to 8 ins. ....	.11	.10
Taxus cusp. Vermeulen , 6 to 8 ins. ....	.09	.08 1/2
Taxus media Hicksi , 6 to 8 ins. ....	.09	.08 1/2
Taxus media Hicksi , 6 to 8 ins. ....	.11	.10
Taxus media hatfieldi , uprr, 6 to 8 ins. ....	.09	.08 1/2
Taxus media hatfieldi , uprr, 6 to 8 ins. ....	.11	.10
Taxus media kelseyi (Berrybush), 6 to 8 ins. ....	.09	.08 1/2
Taxus media kelseyi (Berrybush), 6 to 8 ins. ....	.11	.10
Taxus media pilularis , 4 ins. up. ....	.12 1/2	...
Taxus media pilularis , 4 ins. up. ....	.12 1/2	...
Taxus media pyramidalis , 4 ins. up. ....	.12 1/2	...
Taxus media robusta , 4 ins. up. ....	.12 1/2	...
Taxus media stricta , 4 ins. up. ....	.12 1/2	...
Taxus media veridica , 4 ins. up. ....	.12 1/2	...

TRANSPLANTS, Etc.

	Each	Each
	10 to 24	25 to 300
Abelia grandiflora , 2 1/4-in. pot.	\$.20	\$.13
Acer pal. purpureum , selected adlg. ....	.20	.15
2-yr. X , 4 to 6 ins. ....	.25	.17 1/2
2-yr. X , 6 to 8 ins. ....	.30	.25
2-yr. X , 10 to 15 ins. ....	.20	.13
Azalea Altacianense , 2-yr. X. ....	.20	.13
Azalea Hinodegiri , 2 1/4-in. pot. ....	.20	.13

TRANSPLANTS, Etc.—Cont.

	Each	Each
	10 to 24	25 to 300
Azalea Hino-crimson , clear crimson-red, dark green foliage, harder than hinodegiri, does not fade, good forcer, 2 1/4-in. pot.	\$.25	\$.18
4 to 6 ins. , liners. ....	.45	.35
6 to 8 ins. , liners. ....	.55	.45
8 to 10 ins. , liners. ....	.70	.55
6 to 8 ins. , B&B.	1.00	.85
8 to 10 ins. , B&B.	1.25	1.00
Azalea ledifolia alba , 2 1/4-in. pot. ....	.20	.13
Azalea maxwellii , 2 1/4-in. pot. ....	.20	.15
Azalea mollis J. C. Van Tol , red, 2-yr. X, 4 to 6 ins. ....	.20	.15
Buxus koreana , 1-yr., 2 1/4-in. pot, 4 to 6 ins. ....	.20	.15
Hamamelis jap. flavo-purpurea , red, 3-in. pot, 10 to 15 ins.	1.00	.85
Hamamelis jap. zuccariniana , yellow, 1-yr. gr.	1.00	.85
Hamamelis mollis , golden-yellow, 1-yr. gr., 3-in. pot, 10 to 15 ins.	1.00	.85
Ilex crenata convexa , 1-yr., 2 1/4-in. pot, 4 to 6 ins. ....	.25	.18
Ilex crenata convexa , 2-yr., 2 1/4-in. pot, 6 to 10 ins. ....	.30	.25
Ilex crenata latifolia , 1-yr., 2 1/4-in. pot, 6 to 10 ins. ....	.25	.18
Ilex crenata latifolia , 2-yr., 3-in. pot, 8 to 10 ins. ....	.40	.30
Ilex opaca pyramidalis , (ship late May), 2 1/4-in. pot. ....	.35	.30
Ilex opaca mascula (male), (With pyramidalis only—not more than 25.) 2 1/4-in. pot. ....	.30	.25
Magnolia soulangeana , 2 1/4-in. rose pot. ....	.60	.50
Magnolia soul. lennei , adlg., 9 to 12 ins. ....	.45	.35
Magnolia stellata (water lily), 2 1/4-in. rose pot. ....	.60	.50
Malus (Flowering Crab Apple), 1-yr. X, 1 to 2 ft. ....	.55	.45
floribunda , atrosanguinea , eleyi , scheldeckeri , spectabilis. ....	.55	.45
Malus (Flowering Crab Apple), 2-yr. X, 1 to 2 ft. ....	.50	.40
sargentii , 1 to 2 ft. ....	.55	.45
spectabilis , 3 to 4 ft. ....	.55	.45
floribunda , X, 3 to 5 ins. ....	.30	.25
Pieris japonica , X, 3 to 5 ins. ....	.20	.17 1/2
XX , 6 to 8 ins. ....	.45	.35
XX , 8 to 10 ins. ....	.60	.45
Retinospora plumosa aurea , 3-yr. XX, 10 to 12 ins. ....	.30	.25
3-yr. XX , 12 to 15 ins. ....	.40	.30
Retinospora plumosa aurea , 3-yr. XX, 8 to 10 ins. ....	.30	.25
3-yr. XX , 10 to 12 ins. ....	.40	.30
Rhododendron Hybrid seedlings , 2-yr. X, 3 to 5 ins., seeds from red and pink hybrids. ....	.30	.25
Sarcococca hookeriana humilis , 2 1/4-in. pot. ....	.25	.18
1-yr. , 2 1/4-in. pot. ....	.30	.22
3-in. pot ....	.35	.30
Syringa (French Hybrid Lilacs), mixed,	24	300 up
agle , and dble. , 1-yr. X, good varieties.	\$.35	\$.25
Leon Gambetta , 2-yr. XX, 12 to 15 ins. ....	.50	...
Taxus baccata elegansissima , 1-yr., 2 1/4-in. pot. ....	.22	.18
Taxus baccata repandens , 1-yr., 2 1/4-in. pot. ....	.22	.18
Taxus baccata washingtoni , 1-yr., 2 1/4-in. pot. ....	.22	.18
Taxus cuspidata , spr., 2-yr. X, 8 to 10 ins. ....	.25	.20
2-yr. XX , 6 to 8 ins. ....	.25	.20
2-yr. XX , 10 to 12 ins. ....	.28	.23
Taxus cusp. brevifolia , 1-yr. X, 6 to 8 ins. ....	.17	.15
1-yr. X , 8 to 10 ins. ....	.19	.17
2-yr. XX , 6 to 8 ins. ....	.30	.25
Taxus cusp. capitata , tips, 1-yr. X, 4 to 6 ins. ....	.16	.14
1-yr. X , 6 to 8 ins. ....	.18	.15
1-yr. X , 8 to 10 ins. ....	.20	.18
1-yr. X , 10 to 12 ins. ....	.22	.20
2 1/4-in. pot , 8 ins. ....	.22	.19
2 1/4-in. pot , 10 ins. ....	.25	.22
Taxus cusp. densiformis , 1-yr. X, 4 to 6 ins. ....	.18	.16
1-yr. X , 6 to 8 ins. ....	.20	.18
Taxus cusp. intermedia , 1-yr. X, 8 to 10 ins. ....	.19	.17
Taxus cusp. thuyerae , 2 1/4-in. pot, 6 to 8 ins. ....	.20	.18
Taxus cusp. Vermeulen , 1-yr. X, 6 to 8 ins. ....	.17	.15
1-yr. X , 8 to 10 ins. ....	.19	.17
2-yr. X , 10 to 12 ins. ....	.25	.20
2-yr. XX , 6 to 8 ins. ....	.30	.25
2-yr. X , 8 to 10 ins. ....	.35	.28
2-yr. XX , 10 to 12 ins. ....	.38	.32
3-yr. XX , 8 to 10 ins. ....	.40	.30
3-yr. XX , 10 to 12 ins. ....	.45	.35
Taxus media hatfieldi , 1-yr. X, 6 to 8 ins. ....	.17	.15
1-yr. X , 8 to 10 ins. ....	.19	.17
2-yr. X , 4 to 6 ins. ....	.20	.16
2-yr. X , 6 to 8 ins. ....	.22	.18
Taxus media Hicksi , 1-yr. X, 6 to 8 ins. ....	.17	.15
2-yr. XX , 6 to 8 ins. ....	.30	.25
Taxus media kelseyi , 1-yr. X, 6 to 8 ins. ....	.17	.15
1-yr. X , 8 to 10 ins. ....	.19	.17
Taxus media , tall, narrow and hardy, distinct and different. ....	...	...
grandifolia (Bigleaf Yew)		
pyramidalis (Pyramidal Yew)		
robusta (Obelisk Yew)		
stricta (Narrowbush Yew)		
veridica (Grass-green Yew)		
1-yr. , 2 1/4-in. pot. ....	.25	.20
3-yr. XX , 6 to 9 ins. ....	.60	.50
3-yr. XX , 8 to 12 ins. ....	.75	.60
3-yr. XX , 12 to 15 ins. ....	.85	.70
Tsuga canadensis , X, 6 to 8 ins. ....	.15	.12 1/2
Viburnum burkwoodii , 2 1/4-in. pot. ....	.25	.20
1-yr. , 2 1/4-in. pot. ....	.30	.25
3-in. pot , 6 to 8 ins. ....	.35	.30
Viburnum cerasifol. , 2 1/4-in. pot. ....	.35	.30
Wistaria multiflora , 1-yr. gr., 3-in. pot.40	.35
2-yr. gr. , 4-in. pot.55	.45
Wistaria Shironoda , 1-yr. gr., 3-in. pot.40	.35

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Washington Enjoys Varied Program

By C. W. Wieting

The midwinter meeting of the Washington State Nurserymen's Association and an accompanying meeting of the Washington chapter, number 28, of the American Association of Nurserymen found about 100 nurserymen gathered at the Hotel Winthrop, Tacoma, December 13 and 14, to discuss their problems. The group included members of the associations, their families, faculty members from Washington State College, representatives from the state department of agriculture and visitors from other states.

After a brief registration period in the hotel lobby, the meeting opened at 5:30 p. m. with a dinner in the Wedgwood room. Special organ music had been arranged for by R. R. Williams, Puget Sound Nursery, Tacoma, who acted as chairman of the host committee. Mr. Williams led a group of nurserymen in close harmony selections of popular songs and joined with Dr. John Hanley, Seattle garden consultant, in a duet with organ accompaniment.

Introductions showed that a number of prominent persons were present. Visiting from Oregon were Julia and Henry Hausch, Roseway Nurseries; Mrs. Hausch is president of the Oregon Association of Nurserymen. Also from Oregon were Mr. and Mrs. C. B. Miller, Milton Nursery Co.; Mr. and Mrs. Wayne McGill, A. McGill & Son; James Doty, Doty & Doerner, Inc.; Don Doerfler, of F. A. Doerfler & Sons; E. Dering, Peterson & Dering, and John Wieman, head of the nursery service, Oregon state department of agriculture. Prof. J. W. Caddick represented Washington State College, and George Eade, head of the nursery inspection division, and Richard Rodenhurst, bulb inspector, represented the Washington state department of agriculture.

Upon being introduced, Fred Wigg, oldest nurseryman present and dean of Washington nurserymen, made some stimulating remarks. Continually in touch with the nursery industry over the entire country, he pointed out the importance of standardization of nursery products, because too often nurseries ship items of a different size than ordered, resulting in customer dissatisfaction. No hardware merchant would think of delivering a different size ball bearing than that which was ordered, as the product would be useless.

Upon the opening of the meeting after dinner, John Van Dyke, State Flower Nursery, Bothell, president of Washington State Nurserymen's Association, made his presidential address. He pointed out that the war years had brought a tremendous increase in population to the region, which had brought with it a demand for many more houses. As large numbers of these houses are being completed, a tremendous market for nursery products is being developed. Mr. Van Dyke pointed out that while the spirit of rugged individualism was a valuable asset, nurserymen could do much more for themselves through a spirit of cooperation. He stressed that this was especially true in maintaining healthy market conditions brought on by the increasing number of homes. Nurserymen's organizations, Mr. Van Dyke felt, were one of the best means of building needed cooperation.

Much of the success of the Washington State Nurserymen's Association during past months has been due to efficient Robert Schwab, its secretary. In his report, which followed, he outlined briefly the last meeting, which was held at Wenatchee, and opened the way for various committee reports which followed.

The chairman of the trade discounts committee, Ray Beam, May Nursery Co., Yakima, reported that present difficulties were being studied. The flaw seems to be that there are no other qualifications necessary than a state nursery license for operation of a nursery business in the state.

Walter Plough, Columbia & Okanogan Nursery Co., Wenatchee, chairman of the membership committee, presented his committee's findings on membership fees. Mr. Plough pointed out some advantages of increased income to the association and suggested increasing membership fees based on the gross annual income of each nursery.

The chairman of the legislative committee, Frank Bonnell, Bonnell Nurseries, Renton, outlined discriminatory defects in the lien laws, as well as other problems.

Prof. J. W. Caddick, department of horticulture, Washington State College, followed with an outline of the proposed plant test garden at Pullman. He suggested the type of test which would be most helpful and the number of plants required

for each test. A number of the nurserymen present offered to donate plants for the tests which will determine the hardiness and soil-tolerance of plants under eastern Washington conditions.

Dr. John Hanley proposed that action be taken to fix a date for the observance of Arbor day. The second Friday in April was subsequently fixed as the best date for the state of Washington.

The audience of nurserymen and guests enjoyed viewing a motion picture showing ways of increasing business through the use of small portable plant containers. The picture, which was shown through the courtesy of Cloverset Flower Farm, Kansas City, Mo., showed how it was possible to prolong the period during which plants could be sold and how plants could be sold more easily and quickly through the use of Cloverset pots.

The following morning a caravan of nurserymen left the hotel in cars and with a courtesy police escort drove to Inghams' cafe, Puyallup, for breakfast. After breakfast, chapter 28 of the American Association of Nurserymen held a meeting. Mrs. L. N. Roberson, L. N. Roberson Co., Seattle, president of the chapter, opened the meeting. Secretary Robert Tindall, Tindall's Nursery, Bothell, read the minutes of the previous meeting, and a short business session followed. After this meeting the group journeyed to the campus of the western Washington experiment station to hear a short talk by Dr. J. W. Kalkus, superintendent, and for a short tour of the grounds.

Afternoon sessions were held at Fruitland Grange Hall in conjunction with a meeting of the Western Washington Horticultural Society. Dr. John H. Hanley was chairman for the session which was devoted to nursery problems. Paul Dunard, soil specialist with the Charles Lilly Seed Co., Seattle, opened the session with a talk on the basic considerations in the intelligent use of fertilizers. Mr. Dunard's talk brought out an extensive list of the things that need thought when applying fertilizers with an eye to economy. Mentioned was the need for the evaluation of the physical condition of the soil. Without the best possible physical condition of the soil no fertilizer could be expected to be profitable. Other con-

[Continued on page 63.]

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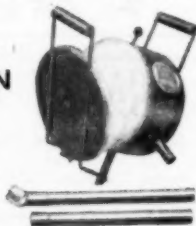
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August Can Be Colorful

By C. W. Wood

To answer several correspondents who have asked during the past year for a list of plants for August flowering, I paid especial attention as I visited gardens and nurseries during the summer for subjects to fill that need. Combining that information with notes made over the years, I submit the following:

There seems to be an impression that August is, of necessity, a colorless month if one depends entirely upon hardy plants. During the first years of my gardening, while I accepted that pessimistic view and was too busy to grow many annuals, August was actually as dull as the winter months, but as I saw a plant or two blooming bravely in the heat of one nursery here and another one there, I made up my mind that the month need not be so dreary as it is often pictured.

It was a pleasant task, then, to gather together a list of perennials that would make August more colorful, and it also has been pleasant to follow that up to date. Nor will it be boasting when I say that not more than half of the August bloomers will be able to crowd themselves into these notes.

Blue Flowers for August.

Because blue is my favorite color and even more because others said that blues were the least plentiful of August flowers, I have ever been on the alert to find that shade. The result has been quite an array of desirable blue border plants. I cannot now enjoy monkshoods, because they do not like my light sand, here in northern Michigan, but formerly, on heavy clay, *Aconitum napellus*, with its 3-foot spires of dark blue monkshoods, was one of the greatest joys of the July and August border. Its variety bicolor, with blue and white flowers and a lower stature of two feet, brings a pleasing variation to the general monkshood theme, and a more recent introduction, Spark's variety, adds an even darker shade of blue.

Given their desire for a heavy soil, monkshoods are generally accommodating plants, adapting themselves to sun or shade and growing in beauty and flower production with the passing years, if, and it seems to be a big if in some sections, wilt does not overtake them. The story of wilt is a long and devious one, not fully understood by many, and suggested treatments would be too long for in-

clusion here, but I am assembling some notes on it at present and may have something to offer later. It might be said, though, that monkshoods, when once established, should be left strictly alone as long as they are doing well.

If one has a soil too light and too sterile for monkshoods, he may console himself with the blue of the eryngiums, and even in heavy soil the latter will usually settle down to a lifetime of beauty if they are given good drainage. They want sunshine, though, to bring out the metallic shades of blue which are their fortune.

There is a plant among the sea hollies for most associations in the hardy border, from the 15-inch *E. bourgati* with its sky-blue heads to the 3-foot, gray-blue *E. giganteum*.

All eryngiums that I know, with the exception of *E. alpinum*, which generally finishes its colorful period in July, will add beauty of color and a charming architectural value to the August border scene. Grow them from seeds, which should be planted as soon as obtainable after maturity, or, in the case of named varieties, such as Taplow Blue, from root cuttings. They should be moved while dormant if possible, because the fleshy taproot resents disturbances when once established, or while small in size. All except *E. glaciale*,

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<i>Acer palmatum</i> , 4 to 6 ins., sdlg.	\$ 5.00	\$ 45.00
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<i>Picea excelsa</i> , 4 to 6 ins., sdlg.	5.00	45.00
<i>Pinus mughus</i> , 3 to 6 ins., sdlg.	5.00	45.00
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<i>Thuja orientalis</i> , 8 to 10 ins., tr.	7.50	60.00
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	each	each	each
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<i>Philadelphus virginialis</i>50	.65	...
<i>Lonicera sabeli</i>40	.50	...
<i>Ligustrum ibota</i> , Each per 10010	.15	\$0.18
Each per 1000 .....	.08	.12	.15
<i>Lonicera heckrottii</i> , 2-yr. ....	.50	...	...
<i>Clematis pan.</i> , 2-yr. ....	.30	...	...
3-yr. ....	.40	...	...
<i>Philadelphus Albatare</i> , (Semidouble, flower-like Virginal with bushy habit.)45	.50	...
<i>Althea Coelestis</i>45

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<i>Abies balsamea</i> , 4-yr. T.....	\$0.15	\$0.12	<i>Taxus cuspidata capitata</i> (cuttings),	\$0.30	\$0.25
TT, 10 to 12 ins.....	.25	.20	T, 4 to 6 ins.....	.90	.85
<i>Acer palmatum</i> , 1-yr. S.....	.10	.09	5-yr. T, 10 to 12 ins.....	.75	.65
<i>Asalea amoena</i> , T, 4 to 8 ins.....	.18	.15	<i>Taxus cuspidata capitata</i> (from seeds),	1.50	1.25
<i>Asalea hinodogiri</i> , T, 4 to 6 ins.....	.18	.15	5-yr. T, 10 to 12 ins.....	1.50	1.25
<i>Berberis thun. atropurpurea</i> , 2-yr. S,	.06	.05½	6-yr. TT, 12 to 15 ins.....	1.80	1.50
12 to 18 ins.....	.05	.04½	<i>Taxus cuspidata columnaris</i> , 3-yr. T,	.30	..
<i>Blueberries</i> , Hybrid, R.C., 12 to 18 ins...	.20	.15	6 to 8 ins.....	.30	..
Varieties: Cabot, Rubel, Rancocas,			<i>Taxus cuspidata nana</i> , 2-yr. T,	.30	.25
Pioneer, Jersey, Pemberton.			8 to 12 ins.....	.45	.40
<i>Chamaecyparis argentea</i> ,	.35	.30	4-yr. TT, 6 to 10 ins.....	.50	.45
TT, 10 to 12 ins.....	.25	..	6-yr. TT, 6 to 12 ins.....	.35	..
<i>Chamaecyparis filifera</i> , T, 8 to 12 ins...	.35	.30	<i>Taxus cuspidata sieboldi</i> , 3-yr. T,	.50	.45
<i>Chamaecyparis filifera aurea</i> ,	.35	.30	6 to 10 ins.....	.35	..
T, 8 to 12 ins.....	.25	.20	<i>Taxus cuspidata thayeri</i> , TT, 9 to 12 ins.	.25	.20
<i>Chamaecyparis plumosa</i> , T, 8 to 12 ins...	.35	.30	<i>Taxus hicksi</i> , 2-yr. T, 9 to 12 ins.....	.30	.25
TT, 10 to 12 ins.....	.35	.30	3-yr. T, 10 to 12 ins.....	.35	.30
TT, 12 to 15 ins.....	.35	.30	TT, 8 to 10 ins.....	.45	.40
<i>Chamaecyparis plumosa aurea</i> , TT,	.35	.30	TT, 10 to 12 ins.....	.40	..
12 to 15 ins.....	.35	.30	<i>Taxus intermedia</i> (spreading),	.30	.25
<i>Chamaecyparis plum. Gold Dust</i> ,	.35	.30	2-yr. T, 6 to 10 ins.....	.35	.30
TT, 12 to 15 ins.....	.06	.05	3-yr. T, 8 to 10 ins.....	.50	.45
<i>Cornus florida</i> , 1-yr. S.....	.45	.40	6-yr. T, 8 to 10 ins.....	.35	.30
<i>Cornus florida rubra</i> , pot grafts.....	.10	.09	<i>Taxus intermedia columnaris</i> , 3-yr. T,	.35	.30
<i>Daphne cneorum</i> (rooted cuttings).....	.35	.30	8 to 12 ins.....	.45	.40
<i>Euonymus radicans carrierei</i> ,	.30	.25	TT, 10 to 12 ins.....	.60	.50
T, 10 to 14 ins.....	.18	.15	<i>Taxus intermedia hancei</i> , 4-yr. TT,	.45	.40
T, 9 to 12 ins.....	.25	.20	TT, 10 to 12 ins.....	.30	.25
<i>Euonymus rad. coloratus</i> , T, 8 to 10 ins.	.15	.15	5-yr. TT, 12 to 15 ins.....	.50	..
TT, 8 to 10 ins.....	.15	.15	5-yr. TT, 15 to 18 ins.....	.80	..
<i>Forsythia Spring Glory</i> , 2½-in. pots...	.15	.15	6-yr. TTT, 12 to 15 ins.....	1.25	..
<i>Ilex crenata</i> , 1-yr. T, 6 to 8 ins.....	.20	.18	6-yr. TTT, 15 to 18 ins.....	.45	.40
<i>Ilex crenata convexa</i> , T, 6 to 8 ins.....	.35	.30	<i>Taxus media andersoni</i> , TT, 6 to 10 ins...	..	..
<i>Juniperus depressa plumosa</i> ,	.35	.30			
T, 8 to 10 ins.....	.17½	..			
2½-in. pots.....	.25	.20			
<i>Juniperus hibernica</i> , T, 8 to 10 ins.....	.35	.30			
<i>Juniperus japonica</i> , T, 8 to 12 ins.....	.30	.25			
<i>Juniperus pfitzeriana</i> , T, 6 to 8 ins.....	.25	.20			
2½-in. pots.....	.30	.25			
<i>Juniperus sabina</i> , T, 6 to 8 ins.....	.25	.20			
<i>Juniperus saccata</i> , T, 8 to 10 ins.....	.45	.40			
<i>Juniperus virginiana</i> , all varieties,	.60	..			
pot grafts.....	.30	.25			
<i>Magnolia soulangeana</i> , pot grafts.....	.15	.15			
<i>Mahonia repens</i> , T, 6 to 8 ins.....	.06	.05			
<i>Philadelphus coronarius aureus</i> ,	.06	.05			
2½-in. pots.....	.03	.02½			
<i>Picea canadensis alba</i> , 2-yr. S, 4 to 6 ins.	.06	.05			
<i>Picea engelmanni</i> , 2-yr. S.....	.06	.05			
<i>Picea excelsa</i> , 1-yr. S.....	.06	.05			
2-yr. S, 4 to 6 ins.....	.18	.15			
<i>Picea pungens</i> , T, 10 to 20 ins.....	.06	.05			
2-yr. S.....	.07	.06			
3-yr. S.....	.09	.07			
4-yr. S.....	.12	.10			
3-yr. T.....	.15	.12			
4-yr. T.....	.15	.14			
<i>Pieris japonica</i> , 1-yr. T, 4 to 6 ins.....	.25	.24			
2-yr. T, 6 to 8 ins.....	.40	.35			
3-yr. T, 8 to 12 ins.....	.04	.03½			
<i>Pinus densiflora</i> , 2-yr. S.....	.05	.04			
3-yr. S.....	.10	.09			
4-yr. S.....	.03	.02½			
<i>Pinus montana mucronata</i> , 1-yr. S.....	.06	.05			
2-yr. S, 2 to 4 ins.....	.10	.09			
3-yr. T.....	.06	.05			
<i>Pinus nigra austriaca</i> , 1-yr. S.....	.07	.06			
2-yr. S.....	.04	.03½			
<i>Pinus rigida</i> , 2-yr. S.....	.04	.03			
<i>Pinus strobus</i> , 2-yr. S.....	.05	.04			
3-yr. S.....	.10	.09			
4-yr. T.....	.06	.05			
<i>Pinus sylvestris</i> , 2-yr. S, 6 to 8 ins.....	.09	.08			
2-yr. T, 6 to 8 ins.....	.10	.09			
3-yr. T, 8 to 10 ins.....	.05	.04			
<i>Pinus thunbergi</i> , 2-yr. S, 4 to 6 ins.....	.10	.09			
2-yr. T, 4 to 6 ins.....	.03	.02½			
<i>Pseudotsuga douglasii</i> , 1-yr. S.....	.06	.05			
2-yr. S, 6 to 8 ins.....	.10	.09			
2-yr. T, 6 to 8 ins.....	.80	.75			
<i>Rhododendrons</i> , named hybrids,	.30	.25			
50% red, pot grafts.....	.35	.30			
<i>Taxus baccata fastigiata</i> , 3-yr. T,	.25	.20			
6 to 12 ins.....	.30	.25			
<i>Taxus baccata repandens</i> , T, 6 to 8 ins...	.35	.30			
<i>Taxus canadensis stricta</i> , T, 6 to 10 ins...	.25	.20			
<i>Taxus cuspidata</i> , 2-yr. T, 8 to 12 ins...	.30	.25			
3-yr. T.....	.40	.35			
TT, 8 to 12 ins.....	.35	.30			
<i>Taxus cuspidata</i> (No. 1, low, flat type),	.60	..			
T, 10 to 14 ins.....	.50	..			
TT, 12 to 15 ins.....	.30	.25			
TT, 9 to 12 ins.....	.30	.25			
(No. 2, semiupright), T, 6 to 12 ins...	.60	..			
(No. 2, semiupright), TT, 12 to 15 ins...	.45	.40			
<i>Taxus cuspidata browni</i> ,	.60	..			
TT, 10 to 12 ins.....					
TT, 12 to 15 ins.....					

The new media of which all nurserymen are thinking well. A beautiful grower, beautiful foliage.

Taxus media, Halloran strain per 100 per 1000

2-yr. T, 6 to 8 ins..... \$0.25 \$0.25
3-yr. T, 8 to 12 ins..... .35 .30
TT, 15 to 18 ins..... 1.50 ..

<i>Taxus media hatfieldi</i> , 2-yr. T, 9 to 12 ins.	.30	.25
3-yr. T, 10 to 12 ins.....	.35	.30
4-yr. T, 10 to 12 ins.....	.40	.35
6-yr. TTT, 12 to 18 ins.....	.90	.85
<i>Taxus media hibernica</i> . (The hardy strain of hibernica.)		
TT, 9 to 12 ins.....	.40	..
TT, 12 to 15 ins.....	.50	..
TT, 15 to 18 ins.....	.75	..
TTT, 12 to 15 ins.....	1.00	..
TTT, 15 to 18 ins.....	1.25	..
<i>Taxus media</i> , Moon's columnaris,		
T, 8 to 10 ins.....	.30	.25
<i>Taxus media pyramidalis</i> , TT, 6 to 10 ins.	.45	.40
<i>Thuja occ. columbia</i> , T, 6 to 8 ins.....	.30	.25
TT, 8 to 12 ins.....	.35	.30
<i>Thuja occ. compacta</i> , T, 6 to 8 ins.....	.30	.25
TT, 8 to 12 ins.....	.40	.35
<i>Thuja occ. douglasii spiralis</i> ,		
T, 10 to 12 ins.....	.30	.25
<i>Thuja occ. elegantissima</i> , T, 8 to 10 ins.	.30	.25
TT, 8 to 10 ins.....	.35	.30
2½-in. pots.....	.20	..
<i>Thuja occ. hoveyi</i> , TT, 12 to 15 ins.....	.40	..
2½-in. pots.....	.18	..
<i>Thuja occ. nigra</i> , 2-yr. T, 8 to 12 ins...	.30	.25
5-yr. TT, 12 to 15 ins.....	.50	.45
<i>Thuja occ. pyramidalis</i> , 2-yr. T,		
8 to 12 ins.....	.30	.25
grafts, TT, 15 to 24 ins.....	.75	.60
2½-in. pots.....	.20	.18
pot grafts.....	.35	..
<i>Thuja occ. variana</i> , T, 6 to 8 ins.....	.22	.20
TT, 8 to 10 ins.....	.35	..
2½-in. pots.....	.20	.17½
<i>Thuja occ. woodwardi</i> , T, 6 to 8 ins.....	.25	.20
<i>Thuja orientalis</i> (Blota), 1-yr. S.....	.03	.02½
<i>Thuja orientalis aurea nana</i> , pot grafts...	.35	..
2-yr. T, grafts, 12 to 15 ins.....	.60	.50
<i>Tsuga canadensis</i> , 3-yr. T, 6 to 12 ins...	.20	.17½
<i>Tsuga canadensis</i> (coll. adiga.),		
6 to 10 ins.....	.07½	.05
<i>Viburnum burkwoodi</i> , pot grafts.....	.40	..
Potted cuttings.....	.30	.25
<i>Viburnum carlesii</i> , pot grafts.....	.40	..
<i>Wegelia Bristol Ruby</i> , 2½-in. pots.....	.15	.12½
<i>Wistaria sinensis</i> (grafting-size),		
1-yr. S.....	.04	.03

See our other advertisements on pages 28 and 30 in this issue.

All the above-listed material is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. All this material is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

E. D. ROBINSON SALES AGENCY

38 South Elm St.

"A friendly, efficient service"

Wallingford, Conn.

FLOWERING SHRUBS



Shrubs as grown at Ottawa.

	Per 100		Per 100
Almond, Pink-flowering		Honeysuckle, Tatarica Rosen	
2 to 3 ft., own root.....	\$50.00	18 to 24 ins.....	\$25.00
18 to 24 ins., own root.....	40.00	Honeysuckle, Tatarica Rubra	
12 to 18 ins., own root.....	25.00	18 to 24 ins.....	25.00
Althaea, Pink		12 to 18 ins.....	18.00
3 to 4 ft.....	40.00	Honeysuckle, Zabell	
2 to 3 ft.....	30.00	18 to 24 ins.....	30.00
18 to 24 ins.....	22.00	12 to 18 ins.....	22.00
Althaea, Red		Hydrangea P. G.	
3 to 4 ft.....	40.00	2 to 3 ft.....	45.00
2 to 3 ft.....	30.00	18 to 24 ins.....	35.00
18 to 24 ins.....	22.00	12 to 18 ins.....	25.00
Berberis Mentorensis		Philadelphus Coronarius	
18 to 24 ins.....	52.50	2 to 3 ft.....	35.00
15 to 18 ins.....	37.50	18 to 24 ins.....	25.00
12 to 15 ins.....	30.00	Rose Aencla	
Berberis, Red-leaved		18 to 24 ins.....	30.00
15 to 18 ins.....	30.00	Spiraea Anthony Waterer	
12 to 15 ins.....	25.00	15 to 18 ins.....	30.00
Berberis Thunbergi		12 to 15 ins.....	25.00
18 to 24 ins.....	25.00	Spiraea Arguta	
15 to 18 ins.....	20.00	18 to 24 ins.....	25.00
12 to 15 ins.....	16.00	12 to 18 ins.....	18.00
Buddleia Charming		Spiraea Billiardii	
No. 1.....	25.00	18 to 24 ins.....	25.00
Medium.....	20.00	12 to 18 ins.....	18.00
No. 2.....	12.00	Spiraea Froebell	
Buddleia Dubonnet		12 to 18 ins.....	18.00
No. 1.....	25.00	Spiraea Prunifolia	
Medium.....	20.00	2 to 3 ft.....	35.00
No. 2.....	12.00	18 to 24 ins.....	25.00
Buddleia Floralari		12 to 18 ins.....	18.00
No. 1.....	25.00	Spiraea Vanhouttei	
Medium.....	20.00	2 to 3 ft.....	25.00
No. 2.....	12.00	18 to 24 ins.....	18.00
Cornus Alba Sibirica		Tamarix Africana	
18 to 24 ins.....	25.00	3 to 4 ft.....	40.00
12 to 18 ins.....	18.00	2 to 3 ft.....	30.00
Crape Myrtle, Pink		18 to 24 ins.....	20.00
18 to 24 ins.....	25.00	Tamarix Hispidia	
Crape Myrtle, Red		3 to 4 ft.....	40.00
18 to 24 ins.....	25.00	2 to 3 ft.....	30.00
Cydonia Japonica		18 to 24 ins.....	20.00
2 to 3 ft.....	30.00	Vitex Macrophylla	
18 to 24 ins.....	22.00	2 to 3 ft.....	35.00
12 to 18 ins.....	16.00	18 to 24 ins.....	28.00
Deutsia Pride of Rochester		12 to 18 ins.....	22.00
2 to 3 ft.....	30.00	Weigela, Newport	
18 to 24 ins.....	22.00	18 to 24 ins.....	50.00
Forsythia Fortunei		Weigela Floribunda	
2 to 3 ft.....	\$35.00	2 to 3 ft.....	50.00
18 to 24 ins.....	25.00	18 to 24 ins.....	40.00
12 to 18 ins.....	18.00	Willow, Discolor	
Forsythia Intermedia		(Pussy Willow)	
Spectabilis		2 to 3 ft.....	25.00
3 to 4 ft.....	40.00	18 to 24 ins.....	20.00
2 to 3 ft.....	35.00	Willow, Irrorata	
18 to 24 ins.....	25.00	2 to 3 ft.....	30.00
12 to 18 ins.....	18.00	18 to 24 ins.....	22.00
Honeysuckle, Morrowi			
18 to 24 ins.....	25.00		

WILLIS NURSERY COMPANY

"Your Wholesale Nurserymen"

OTTAWA, KANSAS

which is seldom available anyway, laugh at drought and heat.

Because most gardeners profess a dislike for anything that bears the name thistle or even resembles one, they are denying themselves several really good garden plants. These include the globe thistles, which are echinops of botanists. But anyone looking for the cooling effects of blue in his midsummer garden cannot afford to take lightly these accommodating plants. Somewhat resembling the eryngiums in their thistlelike leaves and blue heads, they are even more indestructible in the face of enemies of the garden.

Echinops sphaerocephalus is a spectacular thing, when massed at the back of the border, especially when given enough fertility to induce it to send up its bluish heads to a height of six or seven feet. If a smaller plant is desired, the three or four feet of *E. ritro* will fill the bill with metallic-blue heads in July and August, and still lower growths may be had by using the 2-foot *E. pumilum*.

If I were restricted to one blue with a blooming period in summer, the balloonflower would be chosen, not because of any single outstanding character but rather for its all-around goodness. I should know, for instance, when I planted a group of *Platycodon grandiflorum* that the plants would be there a score of years hence, larger and better than at first, still producing their large blue saucers on 2-foot stems all during each summer. They would do that in spite of dry weather, low or high temperatures, or neglect of any kind. And that is what I call a real treasure.

It would be difficult, however, to choose between the next preceding and the azure sage, *Salvia azurea*, for the latter has most of the other's amenable characteristics, including an utter disregard of drought and neglect. And its showers of light blue flowers on long, graceful spikes during August and September would surely help to make one forget that August was ever called an ungrateful month. Its height of three or four feet fits it for a background position in the border, and its color and flowering habit tell one to use it lavishly wherever its desire for sunshine and good drainage can be supplied.

And then, if one is not satisfied with this array of August bloomers of the blue persuasion, others could be added from the following incomplete list: *Carpathian harebell*, *Campanula carpatica*; leadwort, *Ceratostigma plumbaginoides*; bottle gentian, *Gentiana andrewsii*; *Gentiana linearis*; *Lobelia siphilitica*; spiderwort, Trade-

1949 PREDICTIONS

PREDICTION 1

The biggest postwar gain of cost rates (farm) over prices received is expected this year —(U.S.D.A.).

PREDICTION 2

Many nurserymen will reduce costs using an Allis-Chalmers rear-engine Model G.



Using only two to three quarts of fuel per hour, the new economical Allis-Chalmers Model G tractor cuts both operating and overhead costs.

The Model G with its full line of companion implements and pulley power is *handy* power. Use it for tillage between young trees . . . cultivating seedlings, gladiolas and other valuable flowers . . . plowing . . . hauling dirt to your greenhouses . . . mowing . . . raking . . . as a mobile power unit.

Its size is ideal for working in the many close corners found around the nursery. Engine in rear permits unrestricted view of work being done. Speeds vary from $\frac{3}{4}$ up to 7 m.p.h. Many costly hand labor operations can be mechanized by the Model G. One man's wages soon pay for it.

It's a safe prediction: Many nurserymen will cut the high costs of 1949 with the new economical Allis-Chalmers rear-engine Model G.

FULL LINE OF COMPANION TOOLS

- 5-Foot Mower
- 5-Foot Disc Harrow
- Spring Tooth and Drag Harrows
- 2-Row Drill Planter
- Attached Moldboard Plow, 12-Inch Bottom
- Multiple-Row Ground and Power-Driven Seeders
- Independent-Gang Cultivator for Bed Cultivation
- Multiple-Row Independent-Gang Cultivator
- 80-Inch Single Tool-Bar Cultivator
- 60-Inch Double Tool-Bar Cultivator

ALLIS-CHALMERS

TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

"PLANTING TIME IS HERE"

(5% Discount on all cash orders received in January)

Place your order now to insure delivery of these hard-to-get lining-out size shrubs and shade trees. All stock offered below is first-class, planting stock. First come, first served.

Stock quoted F.O.B. McMinnville, Tenn. Packing at cost.

LINING-OUT SHADE TREES

	Per 1000	Lots
	6 to 12 ins.	12 to 18 ins.
ACER, Silver Maple	\$ 8.00	\$ 10.00
ACER RUBRUM, Scarlet Maple.....	15.00	20.00
ACER, Sugar Maple.....	15.00	20.00
AESCULUS, Yellow Buckeye.....	30.00	40.00
CERCIS, Redbud	15.00	20.00
CITRUS, Hardy Orange.....	60.00	80.00
CORNUS, White Dogwood.....	30.00	40.00
CLADRASTIS, Yellow Wood.....	40.00	60.00
FRAXINUS, White Ash.....	10.00	15.00
FRAXINUS, Green Ash.....	10.00	15.00
GLEDTISIA, Honey Locust.....	12.50	15.00
HICORIA OVATA and LACINIOSA.....	50.00	100.00
JUGLANS, Black Walnut.....	20.00	30.00
JUGLANS, White Walnut.....	40.00	60.00
LIRIODENDRON, Tulip tree.....	10.00	15.00
OXYDENDRUM, Sourwood.....	10.00	15.00
PLATANUS, American Sycamore.....	15.00	20.00
QUERCUS, Oak, White, Chestnut, Willow, Red.....	30.00	40.00
SALIX LUTEA.....	30.00	40.00
SALIX BABYLONICA.....	30.00	40.00
ROBINIA, Black Locust.....	6.00	10.00
TILIA, American Linden.....	25.00	35.00
ULMUS, American Elm.....	7.00	10.00
ULMUS, Chinese Elm.....	10.00	15.00

LINING-OUT SIZE SHRUBS

ALTHAEA, Boule de Feu.....	25.00	30.00
ALTHAEA, Rosea, seedlings.....	10.00	20.00
ARONIA, Black Chokeberry.....	12.50	15.00
BERBERIS, Green-leaved Barberry.....	25.00	40.00
BERBERIS, Red-leaved Barberry, 2-yr. seedlings.....	75.00	125.00
DEUTZIA PRIDE OF ROCHESTER.....	20.00	25.00
EXOCHORDA, Pearl Bush.....	40.00	50.00
FORSYTHIA SUSPensa.....	30.00	40.00
FORSYTHIA INTERMEDIA FORTUNEI.....	25.00	35.00
HYDRANGEA, Native Hydrangea.....	15.00	20.00
HYPERICUM, St. John's-wort.....	20.00	25.00
LIGUSTRUM, A.R. North Privet.....	25.00	35.00
LIGUSTRUM, Ibolium Privet.....	25.00	35.00
LIGUSTRUM, Calif. Privet.....	20.00	25.00
LIGUSTRUM, A.R. South Privet.....	5.00	8.00
LILAC, ROTHOMAGENSIS.....	80.00	100.00
LILAC, Common Purple.....	100.00	150.00
LONICERA FRAGRANTISSIMA.....	30.00	40.00
LONICERA, White Tatarian.....	25.00	35.00
PHILADELPHUS CORONARIUS.....	30.00	40.00
ROBINIA, Moss Locust.....	20.00	30.00
SPIRAEA CALLOSA ROSEA.....	25.00	30.00
SPIRAEA THUNBERGI.....	40.00	60.00
SPIRAEA VANHOUTTEI.....	25.00	35.00
WEIGELA ROSEA.....	25.00	35.00

Boyd
NURSERY COMPANY

McMINNVILLE, TENN.

scantia virginiana and Veronica longifolia subsessilis.

Yellow Summer-blooming Perennials.

Luckily, plenty of yellow flowers are available among summer-blooming perennials, because most gardeners use that color as a complement to blues. At the back of the border, one could have the new heleniums, such as the brilliant orange-yellow Chippersfield Orange and Madame Canivet with her large golden flowers, planting them in a humus-filled soil so that their stately habits, to five feet in height, will be brought out. There they will light up their section of the garden from July to September. That does not exhaust the usefulness of heleniums, of course, for they are now available in gold, bronze and red shades, in addition to the ones named.

Although generally considered coarse and fit only for the wild garden, a few of the perennial sunflowers could be used to advantage in the hardy border. That is particularly true of Helianthus orgyalis, a splendid upstanding plant to a height of six or seven feet, the lower part of which is thickly clothed in a fountain of long narrow leaves and the upper part of which is decorated all during late summer and early autumn with 3-inch-wide yellow sunflowers. It is especially good when planted among spring-flowering shrubs, extending the colorful period of that part of a planting long after the shrubs are through their labors. Lower-growing, to three feet in my soil, and of longer blooming habit, from July to September, H. mollis, with its large, single, lemon-yellow flowers, over downy whitish foliage, is refined enough for choice company and is consequently at home at the back of the border, associated with blue flowers of its season.

Correctly handled, two of the gaillardias, Mr. Sherbrook and Sun God, will make one forget all the harsh things he ever said about this usually garish blanketflower, by filling all the days from June until frost with waves of pale gold blooms. To accomplish that end the clumps should be divided at least every second spring, and yearly division is better yet, resetting the strongest divisions in freshly fertilized soil. There are other colors among gaillardias, of course, ranging from the red and yellow of old-time varieties to the bright ruby-red of Ruby. So one can use them in different parts of the sunny border, fitting them into associations according to affinity. In addition to the height of two feet or

[Continued on page 64.]

Nurserymen! Read This

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That Can Help



MORE

YOU MAKE MONEY

In our Free Book we give you the "Cloverset Plan" which has been so successful for hundreds of nurseries throughout America. The methods and selling ideas in this book are new—practical—PROFITABLE and can be the means of increasing your sales and profits **THIS YEAR**.

This book tells you "how we do it" here at Cloverset Flower Farm where we have developed and proved the plan through our past 25 years of practical nursery experience.

You can see how we have built a thriving Cash-and-Carry business in top-quality potted roses, shrubs, perennials, fruit trees, vines, evergreens, etc.—and without the help of a "special" or "ideal" location.

You can easily adopt our plan to your business to **increase your Sales and Profits**.

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Don't wait longer. Fill in and mail this form today for your Free Book.

NOW is the time to get ready for spring sales. CLOVERSET POTS can put more \$\$\$ in your pocket.

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Without obligation or cost, please send me your book "Sell Plants in Pots for Profit."

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Coming Events

MEETING CALENDAR.

January 2 to 4, 1949, A. A. N. Eastern Regional Meeting, Hotel Pennsylvania, New York, N. Y.

January 3, Long Island Nurserymen's Association, Hotel Pennsylvania, New York, N. Y.

January 3, Missouri State Nurserymen's Association, Hotel Muehlebach, Kansas City.

January 3, Kansas Association of Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 4 and 5, Western Association of Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 5, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 5 to 7, Northeastern Weed Control Conference, Hotel New Yorker, New York, N. Y.

January 5 to 7, Indiana Association of Nurserymen, Union Memorial building, Purdue University, Lafayette.

January 6, Iowa retail landscape nurserymen, Hotel Kirkwood, Des Moines.

January 7 and 8, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 7 to 9, American Association of Nurserymen, executive committee, Hotel La Salle, Chicago.

January 10, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 10, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

January 10, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 10 and 11, Maryland Nurserymen's Association, Lord Baltimore hotel, Baltimore.

January 11, National Association of Plant Patent Owners, Hotel La Salle, Chicago.

January 11 to 13, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 11, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston.

January 12 to 14, short course for arborists and landscape gardeners, sponsored by Ohio State University, Neil House, Columbus, O.

January 14, Western New York Nurserymen's Association, Hotel Seneca, Rochester.

January 18 and 19, short course for nurserymen, Ohio State University and the Neil House, Columbus, O.

January 19 and 20, Oklahoma Nurserymen's Association, Biltmore hotel, Oklahoma City.

January 20 and 21, Ohio Nurserymen's Association, Neil House, Columbus.

January 24 and 25, Kentucky Nurserymen's Association, Sealback hotel, Louisville.

January 25 and 26, Pennsylvania Nurserymen's Association, Bellevue-Stratford hotel, Philadelphia.

January 26 and 27, Tennessee State Nurserymen's Association, Hermitage hotel, Nashville.

January 27 and 28, Michigan Association

of Nurserymen, Pantlind hotel, Grand Rapids.

January 28, New Jersey Association of Nurserymen, Trenton.

January 30 to February 1, Virginia Nurserymen's Association, John Marshall hotel, Richmond.

February 1 to 3, New England Nurserymen's Association, Hotel Statler, Boston, Mass.

February 3, Oregon Association of Nurserymen, Heathman hotel, Portland.

February 7 and 8, Rocky Mountain Horticultural Conference, Cosmopolitan hotel, Denver, Colo.

February 15 to 17, conference for nurserymen, Pennsylvania State College, State College.

February 17 and 18, Midwestern Shade Tree Conference, Hotel La Salle, Chicago.

March 3 and 4, Canadian Association of Nurserymen, Royal York hotel, Toronto, Ontario.

ILLINOIS PROGRAM.

By mid-December well over 300 rooms had been reserved by nurserymen for the convention of the Illinois State Nurserymen's Association.

NORTHERN-GROWN LINING-OUT STOCK

	Per 100	Per 1000
<i>Betula papyrifera</i> , 1 to 2 ft.	\$6.00	\$50.00
<i>Clethra alnifolia</i> , 6 to 18 ins.	5.00	45.00
<i>Ilex verticillata</i> , 1 to 2 ft.	5.00	40.00
<i>Syringa vulgaris</i> , 1 to 2 ft.	6.00	50.00
<i>Viburnum cassinoides</i> , 1 to 2 ft.	6.00	50.00
<i>Viburnum lentago</i> , 1 to 2 ft.	6.00	50.00

The above stock is first-quality collected lining-out stock.

NURSERY-GROWN HEMLOCKS

<i>Tsuga canadensis</i> ,	Per 100	Per 1000
6 to 10 ins., 2-yr. trans.	\$12.00	\$100.00
8 to 12 ins., 3-yr. trans.	16.00	150.00
12 to 15 ins., 3-yr. trans.	30.00	250.00

Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

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HEMLOCK Rhododendron — Kalmia Azalea

CURTIS NURSERIES
CALICOON, N. Y.

tion, January 11 to 13, at the Hotel La Salle, Chicago, according to Miles W. Bryant, secretary, which is half again as many rooms as have been reserved for previous conventions, and the prospects are for a record-shattering attendance.

Most of the crowd is expected to arrive Sunday and Monday, January 9 and 10, for advance buying and selling and for meetings of various nurserymen's groups, as listed on the meeting calendar on this page. Registration for the convention of the Illinois State Nurserymen's Association will commence at 9:30 a.m. Tuesday in parlor A on the mezzanine floor. The registration fee of \$10 will cover the cost of the badge required for admittance to all meetings and also all-cost tickets to the

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Why stick to varieties that were good enough in their day but should have been discarded decades ago?

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Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

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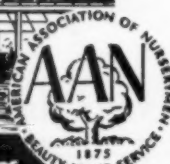
Note the larger, sturdier root systems you always find on Monrovia Nursery LINING OUT STOCK! They're the result of selective and scientific propagation, expert care and correct feeding. Here's the quality you need to insure continued rapid turnover.

BELOW—JUST A FEW FROM OUR LARGE COLLECTION

	EACH		EACH
Amygdalus rosea nana.....	.12	Euonymus japonicus.....	.12
Bignonia tweediana.....	.10	Gelsemium sempervirens.....	.15
Bignonia violacea.....	.15	Hydrangea Revelation.....	.15
Bouvardia albatross.....	.15	Ilex burfordi.....	.17½
Cedrus deodara.....	.15	Jasminum primulinum.....	.12
Chamaecyparis Lawsoniana Allumi.....	.15	Libocedrus decurrens.....	.15
Chamaelaucium ciliatum.....	.17½	Magnolia grandiflora.....	.15
Cissus rhombifolia.....	.15	Nandina domestica.....	.10
Cotoneaster parneyi.....	.08	Photinia serrulata nova.....	.12
Diosma pulchrum.....	.12	Pyracantha Rosedale.....	.17½
Erica hieliana.....	.15	Rosemarinus officinalis.....	.12

Minimum Quantity Of 25 Per Variety

WRITE FOR OUR WHOLESALE CATALOG



Duarte Rd. at Myrtle Ave., Monrovia, California

P. O. Box 196

Phone Monrovia 96

Start the New Year by Ordering Now SPRING, 1949 OFFERINGS

Lining-out stock of 4-yr., XX quality.

	Per 1000
<i>Taxus Cuspidata</i> , 8 to 12 ins.....	\$ 350.00
<i>Taxus Cusp. Nana</i> , 6 to 10 ins.....	400.00
<i>Taxus Media Andersoni</i> , 6 to 10 ins.....	400.00
<i>Taxus Media Hicksi</i> , 8 to 10 ins.....	300.00
<i>Thuja O. Elegantissima</i> , 8 to 10 ins.....	300.00
Balled and Burlapped.	
<i>Taxus Cuspidata</i> , 18 to 24 ins.....	2750.00
<i>Tsuga Canadensis</i> , 2 to 3 ft.....	2500.00
<i>Tsuga Canadensis</i> , 3 to 4 ft.....	3500.00

All fine material, certified for western shipment.

A. N. PIERSON, Inc.

CROMWELL, CONN.

PHONE: Middletown 224 or 225

GUARANTEED LINING-OUT STOCK - SPRING, 1949

	Per 1000
Balsam Fir, 3-yr. transplants (2-1), 2 to 4 ins.....	\$40.00
White Spruce, 4-yr. transplants (2-2), 3 to 6 ins.....	50.00
Banks Pine, 4-yr. transplants (2-2), 12 to 18 ins.....	40.00
Red Pine, 4-yr. transplants (2-2), 4 to 10 ins.....	65.00
Mugho Pine, 3-yr. seedlings (3-0), 2 to 5 ins.....	20.00
Mugho Pine, 3-yr. transplants (2-1), 2 to 4 ins.....	35.00
Scotch Pine, 3-yr. transplants (2-1), 4 to 8 ins.....	50.00
Black Hill Spruce, 4-yr. transplants (2-2), 3 to 6 ins.....	50.00
Engelmann Blue Spruce, 4-yr. transplants (2-2), 3 to 5 ins.....	70.00
Norway Spruce, 3-yr. seedlings (3-0), 2 to 4 ins.....	18.00

Terms: Cash with order, or 50 per cent with order and the balance C.O.D.

250 of one kind and size may be purchased at the 1000 rate.

OUR GUARANTEE

Ninety per cent of all trees (except seedlings) sold at regular wholesale prices, as quoted in this list, are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1949.

Several other varieties available. Send for complete list of stock.

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RED BARBERRY, 2-year Seedlings

6 to 9 ins., 9 to 12 ins., 12 to 18 ins., branched stock.

When this 2-yr. stock is worked out, Red Barberry will not be in surplus.

Send us a list of your needs for quotations.

FAIRVIEW EVERGREEN NURSERIES, Fairview, Pa.

TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

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Trees, Evergreens, Shrubs Fruit Trees

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(E. John Brouwer)

Box 25 624 Montauk Ave.
NEW LONDON, CONN.

luncheons, Wednesday and Thursday noon, and to the banquet, Wednesday evening. Arrangements have also been made for single-session registration this year, and single luncheon tickets will be sold for \$3.50 each. The cost of the banquet has been defrayed in a large part through the courtesy of the advertisers in the convention program. Extra tickets for the banquet may be purchased for \$5 each at the time of registration, but a charge of \$6 will be made for extra banquet tickets purchased at any other time.

The formal call to order will be given at 1:30 Tuesday afternoon in the Illinois room by President William J. Smart, Dundee. Following the invocation and an address by President Smart, the program will be turned over to officers of the American Association of Nurserymen. Howard C. Taylor, president, East View, N. Y., will talk on "The American Association of Nurserymen, Its Purpose and Values"; Richard P. White, executive secretary, Washington, D. C., will talk on "A. A. N. Activities for 1949," and W. J. Smart, transportation chairman, Dundee, Ill., will give a description of the arrangements for the special train tour to and from the 1949 A. A. N. convention at San Francisco in July. At the conclusion of Mr. Smart's remarks, color motion pictures of the scenic highlights of the tour will be shown by representatives of the railroads over whose tracks the tour will travel.

No session is scheduled for Wednesday morning. A luncheon at 12:15 p. m. in the Illinois room will start the day's program, and the luncheon speaker will be Gordon L. Hostetter, director of the Employers' Association of Chicago. His subject will be "Human Liberty and How to Lose It."

The program will continue at 2:30 p. m. with an address on "The International Problem of Plant Disease Control" by Dr. E. C. Stakman, chief of the division of plant pathology and botany, University of Minnesota, and agent of the United States Department of Agriculture. Dr. Stakman's extensive scientific study trips to Europe, Australia, Mexico, the Far East, Africa, South America and through the United States have made him particularly well qualified to discuss this subject. The past year Dr. Stakman has been a member of a scientific mission to Japan under the auspices of the National Academy of Sciences to survey the status and improvement of science there.

"Research for Nurserymen" is to be the subject of a talk by Dr. Bryan

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It took 100 years for the old spades to be sup-
planted by a tree digger—20 years to use
tractors instead of horses—100 years to accept
a planter—20 years after tractors were used
to attach a digger. Why are we so slow to
accept progress?

You can save hundreds of dollars in labor and
material and will make thousands of dollars
in first-class stock by using RA-PID-GRO to
feed the foliage. Mix it with your insecticides
and fungicides when spraying.

And we guarantee it! Your customers will
continue to be your customers if you sell them
RA-PID-GRO with every order.

RA-PID-GRO—the only plant food which
feeds all plants the proper way.

Write for discounts to the Nursery Trade.

For over 30 years, the
manufacturer of Ra-Pid-Gro
has claimed that plants can
be fed through their foli-
age. For huskier, healthier
stock, satisfied customers
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TAXUS CUSPIDATA

	In lots of	
	10 to 24	25 to 100
	each	
18 to 24 inches.....	\$3.50	\$3.25
24 to 30 inches.....	4.75	4.50

TAXUS MEDIA (Taller growing, good color)

	In lots of	
	10 to 24	25 to 100
	each	
18 to 24 inches.....	\$3.50	\$3.25
24 to 30 inches.....	4.75	4.50
30 to 36 inches.....	6.25	6.00

All plants compact, three and four times transplanted and sheared. Grown in heavy clay; solid balls. Also, a good assortment of other specimen landscape material.

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HEDGE PLANTS, etc.

In good assortment.

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NEWARK, NEW YORK STATE

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Clematis, Honeysuckle, Silver-lace, etc.
Send for our price list.

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FAIRPORT, N. Y.

NORTHERN COLLECTED EVERGREENS

FERNS
PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD
Charlotte, Vermont

L. Wade, who became head of the department of horticulture at the University of Illinois last September. Before assuming this position, Dr. Wade was engaged in various kinds of work on genetics for the United States Department of Agriculture, the Washburn-Wilson Seed Co. and the University of Wisconsin. This will be Dr. Wade's first appearance on an Illinois State Nurserymen's Association program.

Final speaker at this session will be Dr. J. C. Carter, plant pathologist, Illinois State Natural History Survey, who will give an illustrated talk on "Recent Developments in the Tree Disease Situation in Illinois." In his studies of tree disease work, Dr. Carter has visited many of the commercial nurseries in the state and has attended annual meetings of this association; so he is well known to most Illinois nurserymen. He is the current president of the Midwest chapter of the National Shade Tree Conference.

A cocktail hour beginning at 6 p. m. will precede the banquet at 6:45 p. m. in the Grand ballroom on the nineteenth floor. There are to be no speakers at the banquet, but entertainment in the form of an extensive floor show has been planned.

The session beginning at 9:30 a. m. Thursday in parlor D will be a business meeting for members of the Illinois State Nurserymen's Association only, at which time officers and committees will report and new officers will be elected.

A luncheon at 12:15 p. m. in the Illinois room will start the afternoon program, which will be highlighted by an address "Where Do We Go from Here?" by Clifton M. Utley, Chicago, well known radio newscaster and commentator.

The annual meeting of the Illinois chapter of the American Association of Nurserymen will bring the convention to a close.

IOWA PROGRAM.

The annual convention of the Iowa Nurserymen's Association, January 7 and 8 at the Hotel Kirkwood, Des Moines, will be prefaced by a closed meeting of retail landscape nurserymen in Iowa, starting at 1:30 p. m. January 6 and featuring round-table discussions of business methods, landscape nursery practices and equipment, and a meeting at 10:30 a. m. January 7 of the Iowa chapter of the American Association of Nurserymen, with Richard P. White, A. A. N. executive secretary, Washington, D. C., and Howard C. Taylor, A. A. N. president, East View,

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YEARLING PEACH TREES

	Each	Per 10	Per 100	Per 1000
7/8 to 1-in., 6 to 7 ft.	\$0.90	\$7.50	\$65.00	\$600.00
1 1/16 to 7/8-in., 5 to 6 ft.	.75	6.00	50.00	450.00
9/16 to 1 1/16-in., 4 to 5 ft.	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.	.55	4.00	30.00	250.00
5/16 to 7/16-in., 2 to 3 ft.	.45	3.00	20.00	150.00
1/4 to 5/16-in., 2 to 3 ft.	.40	2.50	15.00	125.00
Belle of Georgia, Brackett, Carman, Early Crawford, Late Crawford, Early Elberta, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, J. H. Hale, O'Boy, Redhaven, Rochester, Shipper's Late, Sunhigh, Summercrest, Triogram, Valiant, Vedette, White Hale.				

APPLE TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.	.90	7.50	65.00	600.00
1 1/16 to 7/8-in., 5 to 6 ft.	.75	6.00	50.00	450.00
9/16 to 1 1/16-in., 4 to 5 ft.	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.	.50	3.80	28.00	250.00
5/16 to 7/16-in., 2 to 3 ft.	.45	3.20	22.00	200.00
Anoka, Delicious, Dbl. Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Jonathan, Dbl. Red Jonathan, Lodi, McIntosh, Dbl. Red McIntosh, Red Spy, Rome Beauty, R. I. Greening, Stayman, Dbl. Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.				

PEAR TREES

2-year Buds	Each	Per 10	Per 100
1 1/16-in. and up, 5 to 6 ft.	\$1.10	\$9.50	\$80.00
9/16 to 1 1/16-in., 4 to 5 ft.	.95	8.00	65.00
7/16 to 9/16-in., 3 to 4 ft.	.85	7.00	55.00
Bartlett, Cayuga, Clapp Favorite, Duchess, Kieffer, Seckel.			

PLUM TREES

	Each	Per 10	Per 100
1 1/16-in. and up, 5 to 6 ft.	\$1.15	\$10.00	\$90.00
9/16 to 1 1/16-in., 4 to 5 ft.	1.00	8.50	75.00
7/16 to 9/16-in., 3 to 4 ft.	.85	7.00	60.00
5/16 to 7/16-in., 2 to 3 ft.	.75	6.00	50.00
Abundance, Burbank, Fellenberg, Stanley, Shropshire Damson, Red June.			

SOUR CHERRY

	Each	Per 10	Per 100
1 1/16-in. cal. and up.	\$1.25	\$11.00	\$95.00
9/16 to 1 1/16-in. cal.	1.15	10.00	85.00
7/16 to 9/16-in. cal.	1.00	8.50	70.00
5/16 to 7/16-in. cal.	.90	7.50	60.00
Montmorency, May Duke, Early Richmond, English Morello.			

SWEET CHERRY

	Each	Per 10	Per 100
1 1/16-in. cal. and up.	\$1.50	\$13.50	\$125.00
9/16 to 1 1/16-in., 4 to 5 ft.	1.25	11.00	100.00
7/16 to 9/16-in., 3 to 4 ft.	1.10	9.50	85.00
5/16 to 7/16-in., 2 to 3 ft.	.95	8.00	70.00
Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.			

GRAPEVINES

Our Grapes have heavy fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

CONCORD (blue), CATAWBA (mahogany).

NIAGARA (white):

	Each	Per 10	Per 100	Per 1000
2-yr., No. 1 grade.	\$0.25	\$1.75	\$12.00	\$90.00
1-yr., No. 1 grade.	.20	1.50	9.00	75.00
AGAWAM (red), BRIGHTON (red), FREDONIA (black), MOORE'S DIAMOND (white), WORDEN (black):				
2-yr., No. 1 grade.	.25	2.00	15.00	110.00
1-yr., No. 1 grade.	.20	1.75	12.00	100.00
CACO (red), DELAWARE (red), PORTLAND (white):				
2-yr., No. 1 grade.	.30	2.25	18.00	140.00
1-yr., No. 1 grade.	.25	2.00	14.00	120.00

ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

Varieties: MARY WASHINGTON, PARADISE

	Per 25	Per 100	Per 250	Per 1000
3-yr., heavy No. 1 grade.	\$1.00	\$3.50	\$7.50	\$25.00
2-yr., heavy No. 1 grade.	.75	2.50	4.75	15.00
1-yr., heavy No. 1 grade.	.60	2.00	3.50	9.00

RHUBARB ROOTS

Varieties: VICTORIA, MYATT'S LINNAEUS

	Per 25	Per 100	Per 250	Per 1000
2-in. up, forcing grade.	\$2.75	\$9.50	\$22.50	\$85.00
1 1/2 to 2-in. cal.	2.00	6.50	15.00	55.00
1 to 1 1/2-in. cal.	1.50	4.50	10.00	35.00
5/8 to 1-in. cal.	1.25	3.50	7.50	25.00
1/2 to 5/8-in. cal.	1.00	2.50	5.00	16.00

BERRY PLANTS, No. 1 grade

	Per 10	Per 25	Per 100	Per 1000
Thorny Boysenberry	\$1.00	\$2.00	\$6.00	\$40.00
Thornless Boysenberry	1.00	2.00	7.00	50.00
Lucretia Dewberry	.60	1.25	4.00	30.00
Cumberland Raspberry	1.00	2.00	6.00	45.00
Indian Summer Raspberry	1.00	2.00	7.00	60.00
Latham Raspberry	1.00	2.00	6.00	50.00
St. Regis Raspberry	1.00	2.00	6.00	50.00
Sunrise Raspberry	1.00	2.00	7.00	60.00
Blowers Blackberry	1.00	2.00	6.00	40.00
Eldorado Blackberry	1.00	2.00	6.00	40.00

HEDGE PLANTS

Our soil and climatic conditions are ideal for the production of good Privet, and we guarantee our stock to be as well grown and developed in grade as any in this country. Write for special prices on large numbers.

CALIFORNIA PRIVET

(Ligustrum ovalifolium)

	Per 10	Per 100	Per 1000
6 to 12 ins., 2 canes or more.	\$0.65	\$5.00	\$40.00
12 to 18 ins., 2 canes or more.	.75	6.00	50.00
18 to 24 ins., 3 canes or more.	.85	7.00	60.00
2 to 3 ft., 4 canes or more.	1.00	8.50	75.00
3 to 4 ft., 6 canes or more.	1.50	12.50	110.00

IBOLIUM PRIVET (Ligustrum ibolium)

Can be furnished in exact grades and prices as California Privet listed above.

AMUR RIVER NORTH PRIVET

(Ligustrum amurense)

	Per 10	Per 100	Per 1000
12 to 18 ins., 3 canes or more.	.80	6.50	55.00
18 to 24 ins., 3 canes or more.	1.00	8.50	75.00
2 to 3 ft., 4 canes or more.	1.40	12.00	105.00
3 to 4 ft., 6 canes or more.	1.80	16.00	145.00

JAPANESE BARBERRY

(Berberis thunbergii)

	Per 10	Per 100	Per 1000
3-yr., 9 to 12 ins., trans.	1.60	12.00	110.00
3-yr., 12 to 15 ins., trans.	2.00	16.00	150.00
3-yr., 15 to 18 ins., trans.	2.50	20.00	190.00
3-yr., 18 to 24 ins., trans.	3.00	25.00	240.00

RED-LEAVED BARBERRY

(Berberis thunbergii atropurpurea)

	Per 10	Per 100	Per 1000
3-yr., 9 to 12 ins., trans.	2.50	20.00	175.00
3-yr., 12 to 15 ins., trans.	3.00	25.00	200.00
3-yr., 15 to 18 ins., trans.	3.50	30.00	260.00
3-yr., 18 to 24 ins., trans.	4.00	35.00	300.00

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Our 65th Year

A FINE ASSORTMENT OF
HARDY UPLAND - GROWN

FRUIT TREES

1 and 2-year.

STANDARD and DWARF PEAR

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PLUM, APRICOT, QUINCE

SWEET and SOUR CHERRY

PEACH, 1-YEAR

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Prices on Your Spring Requirements.

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See our Representative, H. W. Maloney,
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WHOLESALE ONLY

2-year, field-grown

Four Generations Growing America's Finest Roses.

CARL SHAMBURGER NURSERY

TYLER, TEXAS

TWO-YEAR TRANSPLANTS

	Each
150 Berberis thunbergii, 13 to 24 ins.	per 100 \$0.20
900 15 to 18 ins. ....	.15
1500 12 to 15 ins. ....	.10
100 Celastrus orbiculata, 2 to 3 ft. ....	.35
100 Cydonia japonica, 2 to 3 ft. ....	.35
350 Koikwitsia amabilis, 18 to 24 ins. ....	.40
275 12 to 18 ins. ....	.30

See our advertisements of lining-out
stock on pages 17 and 30 in this issue.

E. D. ROBINSON SALES AGENCY
Wallingford, Conn.
"A friendly, efficient service."

EVERGREENS

Seedlings and Transplants
Spring, 1949

Write for price list.

SUNCREST EVERGREEN NURSERIES
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EVERGREENS and SHRUBS

ROOTED CUTTINGS and TRANSPLANTS

Write for complete list.

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SPECIAL VALUES FOR NURSERYMEN

Two fine, old-established nursery properties in
Florida, very reasonably priced. Also nursery and
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Conn. and Pennsylvania. Good values, priced right.

Write: **HORTICULTURAL REALTY CO.**
135-18 Northern Blvd., Flushing, N. Y.
Realtor to the Florists' and Nursery Trade.

N. Y., to discuss business and elect delegates and alternates to the A. A. N. convention in July.

The formal call to order for the convention of the Iowa Nurserymen's Association will be given by President Harley J. Deems at 1:30 p. m. January 7. Following the president's address, appointment of committees, introduction of new members, reports of officers and committees, A. A. N. President Taylor will address the meeting. Loyal E. Kier, attorney at law, will speak on "New Income Tax Laws and How They Affect You," and H. L. Lantz, pomology section, Iowa State College, will speak on "Some New Fruits, with Special Reference to Peaches and Plums." Concluding the afternoon's program will be an open discussion of up-to-the-minute developments in the nursery business, led by Kimball D. Andrews, Faribault, Minn.; Joseph Fisher, Sioux City, Ia., and Lloyd A. Moffet, Fremont, Neb. Motion pictures of the latest tractor equipment will be shown through the courtesy of the Minneapolis-Moline Tractor Co. The annual dinner at 6:30 that evening will feature, as speaker, Art Briese, Hot Springs, Ark., and a floor show.

The meeting will be resumed the following morning at 9 o'clock with a talk on "The Nursery Industry from the National Viewpoint" by A. A. N. Secretary White. B. F. Stiles, director, Des Moines, will describe "The Iowa Conservation Commission's Proposed Program"; Arnold Webster, department of horticulture, Iowa State College, will speak on "Research Work on Sprout Inhibitors on Roses in Storage," and L. C. Grove, pomology section, Iowa State College, will give "Some Glimpses into Iowa Nurseries." A business meeting with the election of officers will bring the convention to a close by noon.

INDIANA SPEAKERS.

The "precision" convention of the Indiana Association of Nurserymen, January 5 to 7 in the Union Memorial building, Purdue University, West La Fayette, will open at 1:30 p. m. Wednesday with a few remarks of welcome by Verne Freeman, dean, school of agriculture, Purdue University. Following the report of Secretary Ray Price, President I. J. Mathews will make his keynote address on the theme "You Won't Be Hurt If You Stay Alert." Coming from Bowmanville, Ont., Canada, Norman J. Scott, Brookdale-Kingsway, Ltd., will speak on "Opportunities for Nurserymen." A panel

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send me one No. 12 "zippered" Gray's Plant
Salesman prepaid. Send price list and complete
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"ZIPPERED" GRAY'S PLANT SALESMAN

**Designed to cut your costs.
No price increase.**

The new patented "zipper" on Gray's Plant Salesman enables you to use the new galvanized wire basket several times. This new feature permits opening of the basket (see illustration) so that the growing plant in the asphalt paper liner can be lifted out and planted. The basket is then "zippered" closed, a new liner inserted and another plant put in the *same* basket! A deposit from your customers on the wire basket will insure their returning the empty container to your salesyard, or the plant can be lifted and tied with a cord and the wire basket left at the nursery. Extra asphalt liners are available at nominal cost. Only the No. 12 and No. 15 Gray's Plant Salesmen are "zippered."

YOUR PROFITS ARE GREATER
when you use Gray's Plant Salesman because

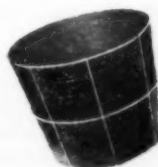
1. It saves time and labor in busy season, as plants do not have to be balled and burlapped out of the nursery.
2. Steps up cash-and-carry sales.
3. Lengthens planting and selling season.
4. It eliminates an enforced three summer months' vacation.
5. Plants do not suffer transplanting "shock."
6. Keeps salesyard attractive and eliminates waste space in sales beds.
7. Cash-and-carry sales assured all during growing season.
8. Plants can be sold in full leaf and flower and do not have to be dormant.
9. Landscape planting can be continued through July and August.
10. Ideally suited for the sale of live Christmas trees.
11. Plant material is sold when it presents the best sales appeal and not the worst.



1. The above shows Gray's Plant Salesman with "zipper" closed.



2. This view shows Gray's Plant Salesman "unzippered."



MADE IN THREE SIZES

You can specify 12, 15 or 18-inch (top diameter) containers. Special asphaltum base felt liners are cut to perfect fitting sizes. No. 10 to 12 gauge wire is durably spot-welded at all points. GRAY'S PLANT SALESMEN are precision manufactured from start to finish in our own plant.

GRAY
INCORPORATED
LANDSCAPE ARCHITECTS

7217 DIVISION STREET
RIVER FOREST, ILLINOIS

DECIDUOUS LINING-OUT STOCK

Hardwood Cuttings, Row Run

	Per 100
150 <i>Ampelopsis engelmanni</i>	\$ 5.00
300 <i>Ampelopsis quinquefolia</i>	5.00
1200 <i>Cornus alba sibirica</i>	5.00
100 <i>albida</i>	4.00
100 <i>baileyi</i>	4.00
500 <i>Deutzia Lemoine</i>	6.00
750 <i>Deutzia Pride of Rochester</i>	5.00
100 <i>Forsythia fortunei</i>	5.00
350 <i>primulina</i>	6.00
2500 <i>spectabilis</i>	5.00
1,200 <i>Hydrangea Hills of Snow</i>	15.00
2,000 <i>Hills of Snow</i> (rooted cuttings)	5.00
1,000 <i>paniculata</i>	8.00
350 <i>Lonicera bella albida</i>	5.00
1700 <i>grandiflora rosea</i>	5.00
100 <i>morrowi</i>	5.50
250 <i>tatarica alba</i>	5.50
1100 <i>tatarica rubra</i>	5.00
200 <i>xylosteum</i>	5.00
275 <i>Philadelphus Albatre</i>	6.00
200 <i>coronarius</i>	5.00
150 <i>Glacier</i>	6.00
125 <i>grandiflorus</i>	5.00
1-yr. Seedlings, Row Run	
700 <i>Ampelopsis heterophylla</i>	4.50
2,000 <i>Ampelopsis tricuspidata</i>	4.00
500 <i>Aristolochia siph</i>	10.00
2,000 <i>Aristolochia tomentosa</i>	2.50
23,000 <i>Berberis thunbergi</i> (extra-good)	1.25
5,000 <i>thunbergi atropurpurea</i>	3.00
5,000 <i>thunbergi atropurpurea</i> , 2-yr., 12 to 18 ins.	5.50
450 <i>Catalpa speciosa</i>	2.00
850 <i>Celastrus orbiculata</i>	5.00
10,000 <i>Cornus florida</i>	5.00
8,700 <i>Cydonia japonica</i>	3.00
150 <i>Desmodium penduliflorum</i>	4.00
500 <i>Euonymus bungeanus</i>	3.00
2,500 <i>europaeus</i>	3.00
150 <i>yedoensis</i>	3.00
300 <i>Hamamelis virginiana</i>	3.00
1,800 <i>Hibiscus syriacus</i>	2.50
500 <i>Laburnum vulgare</i>	5.00
850 <i>Lindera benzoin</i>	4.00
900 <i>Prunus maritima</i>	3.00
1,700 <i>Rhodotypos kerrioides</i>	3.50
500 <i>Rosa rugosa alba</i>	7.50
200 <i>Sophora japonica pendula</i>	15.00
200 <i>Sorbus aucuparia</i>	8.00
1,200 <i>Syringa villosa</i>	2.00

See our other advertisements on pages 17
and 28 in this issue.

Write for catalog

E.D. ROBINSON SALES AGENCY
WALLINGFORD, CONN.

"A friendly, efficient service"

discussion on "How I Simplify Record Routine" will be given by Devol Ernst, Muncie; Ray Price, Plymouth, and James Maschmeyer, Indianapolis. A progress report by Prof. Lowell Moore and Prof. J. A. McClintock, both of the department of horticulture, Purdue University, will conclude the first session.

A program in a lighter vein has been planned for the evening by Vice-president John C. Bunch. After dinner Roger Branagan, a Hoosier wit, will speak with a humorous slant on historical figures of Indiana; Alex Tuschinsky, Hillsdale Landscape Co., Indianapolis, will show motion pictures of the 1948 rose festival at his nursery, while Clark Kidd, Arp Nursery Co., Tyler, Tex., president of the 1948 Texas rose festival, will show Kodachrome pictures of the 1948 festival at Tyler. The program will be concluded with introduction of exhibitors.

Members of the association will answer roll call Thursday morning by naming their favorite laborsaver. Alfred Bloch, nursery manager, W. A. Natorp Co., Cincinnati, O., will speak on "Our New \$80,000 Lath House." A panel discussion entitled "My Latest Wrinkle in Lath Houses" will be led by Bernard Ward, Lansing, Mich., and Robert Hoffman, Wabash; J. C. Bunch, Terre Haute, and others who have recently constructed lath houses. Before the meeting adjourns for luncheon, Richard P. White, executive secretary of the American Association of Nurserymen, will give "The Latest News from the Nursery Front." The program will be resumed at 1:30 p. m. with a talk by Clarence E. Godshalk, Morton Arboretum, Lisle, Ill., on "Extending the Work of the Morton Arboretum." A transcribed talk on "Consumer Education, How We Do It," will be given by F. L. O'Rourke, Michigan State College, with members of the accompanying panel discussion being R. Morgan Smith, Muncie; Harvey Schuell, South Bend; Robert Hobbs, Bridgeport; Frank Littleford, Vincennes, and Campbell Brouwer, Cambridge City.

Robert Hoffman will be toastmaster for the annual banquet that evening, and Al Stuart will lead the Purdue Glee Club in song. Dancing will follow.

Friday morning Prof. Victor Ries, department of horticulture, Ohio State University, will speak on "Choice Bulbs, Tubers and Corms," and Dr. A. H. Monroe, department of speech, Purdue University, will speak on "Closing the Deal."

Nurserymen's wives will have a special luncheon Thursday to be fol-

WISTARIAS

There is much more variation in these than is generally supposed, including pink and double violet flowers, clusters up to 4 ft. long, etc. The Japanese forms are hardier than the common Chinese. We propagate and offer the largest collection in the country in both.

Climbing and Tree forms.

For full particulars, complete descriptions, etc., see our price list 4849 if you have it, or write us today for a copy. It contains a wealth of uncommon material.

W. B. CLARKE & CO.

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San Jose 2, Calif.

ACER PLATANOIDES-NORWAY MAPLES

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Look!

	Per 100
% to 1-in. cal.	\$ 75.00
1 to 1 1/4-in. cal.	100.00
1 1/4 to 1 1/2-in. cal.	200.00
1 1/2 to 1 3/4-in. cal.	325.00
1 3/4 to 2-in. cal.	375.00
2 to 2 1/2-in. cal.	500.00

Additional charge of 10% will be added for balling and shipping. No charge will be made for loading bulk trucks.

When C.O.D. shipment is desired, a cash deposit of 25% must accompany order.

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State and Sproul Rds.
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LILACS

French Hybrids and Standards in 30 best cut flower varieties.

1-yr. grafts, \$25.00 per 100; \$200.00 per 1000.

Ask for Descriptive List.

Also list of Taxus and other liners for Spring, 1949, shipment now ready.

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DEERFIELD STREET P. O., N. J.

PRIVET and BERBERIS

Splendid Stock

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LESTER C. LOVETT
MILFORD DELAWARE

LINING-OUT STOCK - SPRING, 1949

2-year and 3-year field-grown plants

	Each per 100	1000		Each per 100	1000
<i>Acer dasycarpum</i> (Silver Maple), 4 to 6 ft.....	\$0.25	..	<i>Juniperus chinensis pfitzeriana</i> , X, 6 to 8 ins.....	\$0.18	\$0.17
<i>Althaea</i> (<i>Hibiscus syriacus</i>), 1-yr., S., 6 to 12 ins..	.03	\$0.02	<i>Juniperus stricta</i> , X, 3 to 6 ins.....	.15	.14
<i>Azalea Ghent hybrids</i> , XX, 2 to 4 ins., (stocky)...	.15	.13	<i>Juniperus virginiana</i> , S., 1-yr., 2 to 5 ins.....	.04	.03
<i>Azalea Ghent hybrids</i> , XX, 4 to 6 ins., (stocky)...	.25	.23	<i>Juniperus virginiana</i> , S., 2-yr., 5 to 10 ins.....	.07	.06
<i>Azalea Gauch hybrids</i> , XXX, 6 to 9 ins., (stocky)...	.35	.32	<i>Koeleuteria paniculata</i> , S., 4 to 8 ins.....	.10	.09
<i>Azalea kaempferi hybrids</i> , X, 3 to 6 ins.....	.15	.13	<i>Leucothoe catesbaei</i> , 1-yr.....	.12	.11
<i>Azalea mollis</i> , XX, 4 to 6 ins., (heavily rooted)...	.25	.23	<i>Leucothoe catesbaei</i> , XX, 6 to 8 ins.....	.24	.23
<i>Azalea mollis</i> , XX, 6 to 9 ins., (heavily rooted)...	.45	.40	<i>Liquidambar styraciflua</i> , S., 1-yr.....	.04	.03
<i>Azalea mollis</i> , XX, 9 to 12 ins., (heavily rooted)...	.65	.60	<i>Norway Spruce</i> , 2-yr., S., 3 to 8 ins.....	.06	.05
<i>Berberis thunbergii</i> , X, 4 to 8 ins.....	.04	.03	<i>Pieris floribunda</i> , X, 3 to 5 ins.....	.12	.11
<i>Berberis thunbergii atropurpurea</i> , S., 4 to 8 ins..	.04 1/2	.03	<i>Pieris floribunda</i> , X, 5 to 8 ins.....	.18	.17
<i>Buddleia davidi</i> , S., 1-yr.....	.05	.04	<i>Pieris japonica</i> , X, 2 to 4 ins., (heavily rooted)...	.15	.14
<i>Buxus sempervirens</i> , X, 2 to 4 ins.....	.12	.11	<i>Pieris japonica</i> , XX, 3 to 5 ins., (heavily rooted)...	.20	.19
<i>Buxus suffruticosa</i> , X, 2 to 4 ins.....	.12	.11	<i>Pieris japonica</i> , XX, 5 to 8 ins., (heavily rooted)...	.45	.40
<i>Calycanthus floridus</i> , S., 1-yr.....	.04	..	<i>Pieris japonica</i> , XX, 8 to 12 ins., (heavily rooted)...	.65	.60
<i>Celtis occidentalis</i> , S., 6 to 12 ins.....	.04	..	<i>Pinus nigra</i> (Austrian), S., 2 to 4 ins.....	.04	.03
<i>Chamaecyparis allumi</i> , X, 4 to 6 ins.....	.15	.14	<i>Pinus sylvestris</i> (Scotch), S., 2 to 4 ins.....	.03	.02
<i>Cham. lawsoniana</i> , XX, 5 to 10 ins.....	.25	..	<i>Poplar, Lombardy</i> , X, 2 to 4 ft.....	.08	.08
<i>Cham. lawsoniana</i> , S., 1-yr., 3 to 5 ins.....	.05	.04	<i>Privet, Amur River</i> , X, 2-yr., 18 to 24 ins.....	.07	.06
<i>Retinospora filifera</i> , X, 4 to 6 ins.....	.15	.14	<i>Privet, Regel</i> , S., 1-yr., 6 to 12 ins.....	.03	.02
<i>Retinospora filifera aurea</i> , X, 4 to 6 ins.....	.18	.17	<i>Privet, Regel</i> , X, 2-yr., 12 to 18 ins.....	.08	.07
<i>Retinospora filifera aurea</i> , X, 4 to 6 ins.....	.18	.17	<i>Pyracantha lalandi</i> , X, 6 to 12 ins.....	.18	..
<i>Retinospora plumosa aurea</i> , X, 4 to 6 ins.....	.15	.14	<i>Rhododendron hybrids</i> , 2-yr., XX, 2 to 4 ins.....	.20	.18
<i>Colorado Blue Spruce</i> , 2 to 4 ins., 2-yr. S.....	.06	.05	<i>Rhododendron hybrids</i> , XX, 4 to 6 ins.....	.35	.35
<i>Colorado Blue Spruce</i> , 4 to 8 ins., 3-yr. S.....	.10	.09	<i>Rhododendron hybrids</i> , XXX, 6 to 9 ins.....	.65	.55
<i>Cotoneaster horizontalis</i> , X, 4 to 8 ins.....	.18	..	<i>Rhododendron hybrids</i> , XXX, 9 to 12 ins.....	.85	.70
<i>Cytisus scoparius</i> , 2-yr., 12 to 24 ins.....	.15	..	Rhododendrons are dug with firm root ball.		
<i>Euonymus carrierei</i> , X, 5 to 8 ins.....	.10	.08	<i>Sophora japonica</i> , S., 2-yr., 10 to 20 ins.....	.10	..
<i>Euonymus carrierei</i> , XX, 6 to 12 ins.....	.15	.14	<i>Taxus capitata</i> , X, 4 to 6 ins., (heavily rooted)...	.14	.13
<i>Euonymus coloratus</i> , X, 4 to 8 ins.....	.08	.07	<i>Taxus capitata</i> , XX, 4 to 6 ins., (heavily rooted)...	.18	.17
<i>Euonymus europaeus</i> , S., 3 to 8 ins.....	.03	.02	<i>Taxus capitata</i> , X, 6 to 8 ins., (heavily rooted)...	.18	.17
<i>Euonymus fortunei erecta</i> , X, 4 to 8 ins.....	.10	.08	<i>Taxus capitata</i> , XX, 6 to 8 ins., (heavily rooted)...	.25	..
<i>Euonymus patens</i> , X, 4 to 8 ins.....	.10	.08	<i>Taxus cuspidata</i> , X, 4 to 6 ins., (heavily rooted)...	.13	.12
<i>Euonymus patens</i> , XX, 8 to 12 ins.....	.18	.16	<i>Taxus cuspidata</i> , X, 6 to 8 ins., (heavily rooted)...	.18	.17
<i>Euonymus vegetus</i> , X, 4 to 8 ins.....	.12	.11	<i>Taxus cuspidata</i> , XX, 6 to 10 ins., (heavily rooted)...	.25	.24
<i>Ilex crenata</i> , X, 3 to 5 ins.....	.12	.11	<i>Taxus hicksii</i> , XX, 4 to 8 ins.....	.18	..
<i>Ilex crenata convexa</i> (bullata), X, 2 to 4 ins.....	.12	.12	<i>Taxus hicksii</i> , XX, 6 to 12 ins.....	.35	..
<i>Ilex crenata convexa</i> (bullata), XX, 4 to 6 ins.....	.17	.16	<i>Thuja eliwangeriana</i> , X, 4 to 6 ins.....	.13	.12
<i>Ilex crenata convexa</i> (bullata), XX, 6 to 8 ins.....	.24	..	<i>Thuja elegantissima lutea</i> , X, 4 to 6 ins.....	.15	.14
<i>Ilex glabra</i> , X, 2 to 4 ins.....	.15	.14	<i>Thuja elegantissima lutea</i> , X, 6 to 9 ins.....	.20	.18
<i>Ilex glabra</i> , XX, 4 to 6 ins.....	.24	.23	<i>Thuja, Dwarf Globe</i> , X, 3 to 5 ins.....	.12	.11
<i>Ilex glabra</i> , XX, 6 to 9 ins.....	.30	.28	<i>Thuja, Dwarf Globe</i> , X, 5 to 8 ins.....	.17	.16
<i>Ilex rotundifolia</i> , X, 2 to 4 ins.....	.13	.12	<i>Thuja, Dwarf Globe</i> , XX, 6 to 9 ins.....	.22	.20
<i>Ilex rotundifolia</i> , XX, 4 to 6 ins.....	.18	.17	<i>Thuja occidentalis</i> , S., 2 to 4 ins.....	.04	.03
<i>Ilex rotundifolia</i> , XX, 6 to 9 ins.....	.24	.23	<i>Thuja orientalis</i> , S., 2 to 4 ins.....	.05	..
<i>Juniper, Andorra</i> , X, 4 to 6 ins.....	.12	.11	<i>Thuja, Hill's Golden</i> , X, 3 to 5 ins.....	.18	.17
<i>Juniper, Andorra</i> , X, 6 to 8 ins.....	.17	.16	<i>Thuja plicata douglasii</i> , X, 4 to 6 ins.....	.14	.13
<i>Juniper, Andorra</i> , XX, 6 to 9 ins.....	.24	.23	<i>Thuja pyramidalis</i> , X, 4 to 6 ins.....	.18	..
<i>Juniperus glauca hetzi</i> , X, 4 to 6 ins.....	.15	.13	<i>Thuja canadensis</i> , XX, 6 to 8 ins.....	.22	.20
<i>Juniperus glauca hetzi</i> , X, 6 to 10 ins.....	.18	.17	<i>Viburnum opulus</i> , 1-yr., S., 4 to 8 ins.....	.04	.03
<i>Juniper, Irish</i> , X, 3 to 6 ins.....	.14	.13	<i>Viburnum opulus</i> , 2-yr., X, 2 to 5 ins.....	.10	.09
<i>Juniper, Irish</i> , X, 6 to 9 ins.....	.18	.17			

Orders for less than 25 of a variety not accepted.

X indicates number of times transplanted.

25 at 100 rate; 300 at 1000 rate.

500 plants in variety of not less than 100 each at 1000 rate.

10% discount on orders of 5000 plants and over.

Terms: Net cash with order, or 1/3 cash with order and balance C.O.D. All shipments sent by railway express, unless parcel post specified and remittance to cover included.

Japanese beetle certification provided when specified.

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HARMONY, PA.

lowed by a tour of the kitchens in the cafeteria of the Memorial Union building, and they will also enjoy a tour of the factory of National Homes, Inc., La Fayette, where prefabricated houses are made.

CONNECTICUT PLANS.

The executive committee of the Connecticut Nurserymen's Association met December 6 to complete plans for the association's annual winter meeting, which will be held January 5 at the Waverly Inn, Cheshire. A well balanced program has been planned, with the business session in the morning, a visiting hour from 11:30 a. m. to 12:30 p. m., three speakers and a special chicken dinner. The speaker of the day will

Florida-grown ROSES do best in the Southeast.

Shipped in bulk or individually wrapped for over-the-counter sales.

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Florida-grown GRAPES are unsurpassed in the land of corn and cotton.

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The **CHRYSANTHEMUM CATALOG** you cannot afford to be without.

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CHINESE CHESTNUT TREES
Blight-resistant.
TREES—TRANSPLANTS—LINERS

THE GOLD CHESTNUT NURSERY
Cowan, W. Va.

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	Per 100	Per 1000
Concord, 2-l	\$10.00	\$ 80.00
Concord, 1-l	8.00	60.00
Niagara, 2-l	11.00	90.00
Niagara, 1-l	9.00	70.00
Catawba, 2-l	11.00	90.00
Catawba, 1-l	9.00	70.00
Fredonia, 2-l	11.00	90.00
Fredonia, 1-l	9.00	70.00
Delaware, 2-l	14.00	120.00
Delaware, 1-l	11.00	90.00
Van Buren, 2-l	35.00	...
Van Buren, 1-l	25.00	...
Sheridan, 1-l	14.00	...

BLACKBERRIES

Eldorado, transplants	4.50	55.00
No. 1, R.C.	4.50	35.00
Alfred, transplants	4.50	55.00
No. 1, R.C.	4.50	35.00
Early Harvest, No. 1, R.C.	5.00	40.00

BOYSENBERRIES AND DEWBERRIES

Boysenberry (Common), No. 1, tips	5.00	40.00
Boysenberry (Thornless), No. 1, tips	5.50	45.00
Lucretia Dewberry, No. 1, tips	5.00	40.00

CURRENTS

Wilder, 3-yr., heavy	15.00	130.00
2-yr., No. 1	12.00	100.00
Red Lake, 2-yr., No. 1	16.00	...
1-yr., No. 1	12.00	...

GOOSEBERRIES

Downing, 2-yr., No. 1	30.00	...
Houghton, 2-yr., No. 1	25.00	...
Champion, 2-yr., No. 1	25.00	...

RED RASPBERRIES

Latham, transplants	7.50	65.00
1-yr., No. 1	6.00	50.00
Chief, transplants	7.00	60.00
1-yr., No. 1	5.50	45.00
Sunrise, transplants	7.00	60.00
1-yr., No. 1	5.50	45.00
Indian Summer, transplants	8.00	70.00
1-yr., No. 1	6.50	55.00
St. Regis, transplants	7.00	60.00
1-yr., No. 1	5.50	45.00

BLACK RASPBERRIES

Cumberland, No. 1, tips	4.50	35.00
Logan, No. 1, tips	4.50	35.00
Morrison, No. 1, tips	5.00	40.00

PURPLE RASPBERRIES

Sodus, No. 1, tips	5.50	45.00
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ASPARAGUS

Paradise and Washington, 3-yr., heavy	4.00	30.00
2-yr., No. 1	2.30	18.00
1-yr., No. 1	1.70	12.00
1-yr., in 10,000 lots	...	10.00

VICTORIA RHUBARB

1 1/2-in. and up, whole roots	8.00	75.00
1 to 1 1/2-in., whole roots	5.50	50.00
3/4 to 1-in., whole roots	4.00	35.00
1/2 to 3/4-in., whole roots	3.00	25.00

RED RHUBARB

Canada Red, No. 1, divisions	40.00	350.00
McDonald, No. 1, divisions	30.00	250.00

HORSE-RADISH

Cuttings, 4 to 5 ins.	2.00	15.00
Whole roots	4.50	35.00

BLUEBERRIES

Rancocas (Early), Rubel (Midseason), Jersey (Late)	Each	Per 100
2-yr., 9 to 12 ins.	\$0.40	\$3.50
3-yr., 12 to 18 ins.	.55	5.00
4-yr., 18 to 24 ins.	.75	7.00
		67.50

KRIEGER'S WHOLESALE NURSERY
BRIDGMAN, MICHIGAN
P. O. Box 143 Telephone 22

be Edmund H. Harding, the Tarheel humorist from North Carolina. Richard P. White, executive secretary of the American Association of Nurserymen, and Kenneth Bradley, University of Connecticut, will also speak. A chicken dinner, the specialty of the Waverly Inn, will be served, and Florence Schaefer, Hartford, will entertain with selections on her marimba.

MASSACHUSETTS PROGRAM.

The fortieth annual meeting of the Massachusetts Nurserymen's Association, Inc., January 11 at the Hotel Kenmore, Boston, will commence at 10 a. m. with roll call. Following the president's, treasurer's and various committees' reports, the speaker of the morning, Richard H. Fillmore, propagator at the Arnold Arboretum, will talk on "Modern Methods of Plant Propagation." Mr. Fillmore will demonstrate some of his techniques and answer any questions on propagation.

The time from 11:45 a. m. until 12:30 p. m. has been set aside for a social hour. At the luncheon at 12:30, E. W. Gallagher, assistant manager of the Boston Better Business Bureau, will tell about the bureau's relation to principles and ethics in business, describing how the bureau functions and what it does about questionable business practices.

At 2 p. m., Prof. Raymond Otto, head of the department of landscape architecture, Massachusetts State College, will speak on "Plants Down Under." He will illustrate with Kodachrome slides some plants new to nurserymen and also say something about landscaping the modern home. A business meeting will bring the one-day convention to a close.

WESTERN NEW YORK PROGRAM PLANS.

The Western New York Nurserymen's Association will hold a one-day meeting January 14 at the Seneca hotel, Rochester, with registration starting at 9 a. m. and the program at 10 a. m. The morning session will be devoted to talks by two officers of the American Association of Nurserymen, President Howard C. Taylor and Executive Secretary Richard P. White, who will cover current events in the nursery business, and a round-table discussion entitled "How's Business?"

After luncheon, Dr. A. M. S. Pridham, Cornell University, will describe the highlights of his recent trip to New Zealand. With a busi-

OUR SPECIALS

Peach, 1-yr. buds.
Willow, Babylon, 6 to 8 ft., 8 to 10 ft.
Willow, Wisconsin Weeping, 6 to 8 ft., 8 to 10 ft., 10 to 12 ft.
Berberis Thunbergi, seedlings, 2 and 3-yr., branched, 6 to 9 ins., up to 18 to 24 ins.
Arbortitae American, 2 to 2 1/2 ft., 2 1/2 to 3 ft., 3 to 4 ft.
Juniper, Pfitzer, 3 to 3 1/2-ft., 3 1/2 to 4-ft. spread.
Pine, Mugho, all sizes from 16-in. up to 3 to 4-ft. spread.
Spruce, White, 2 to 2 1/2 ft., 3 to 4 ft., 4 to 6 ft.
Taxus, in variety, 12 ins. up to 3 to 2 1/2 ft.
Asparagus, Paradise, 2-yr., the newest and best variety.
Perennials, strong, field-grown, in a wide assortment of varieties, including a splendid collection of hardy Mums.

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Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 90 x 18 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royce High Point, N. C.

ness session and election of officers the meeting will come to a close.

N. L. N. A. EXHIBITS.

The program for the meeting of the National Landscape Nurserymen's Association, January 10 in parlor F of the Hotel La Salle, Chicago, will be conducted as a workshop with special features as outlined in the preceding issue. In addition, there will be on display landscape plans showing the presentation of ideas to customers and also photographs of works of various members. The program has been arranged by Laurence G. Holmes, executive committee member from region 3, with the assistance of President George Siebenthaler and Secretary Harold Hunziker.

OREGON PLANS.

Following a meeting the evening of February 2 of the Oregon Bulb, Florist and Nursery Council, the Oregon Association of Nurserymen will hold its annual midwinter meeting February 3 at the Heathman hotel, Portland. President Julia Hausch will preside at the one-day meeting which has been planned to interest nurserymen from all the Pacific northwest, for as usual, there are expected to be many visitors from Washington and California in attendance, Secretary R. A. Walker, has announced.

Guest speakers will include Ben Hazen, Benjamin Franklin Savings & Loan Association, whose topic will be "The Low Cost of Leadership," and specialists in horticulture from Oregon State College. Two color films with sound recordings will be shown. One, "The Gift of the Green," was edited by Dr. William J. Robbins, director of the New York Botanical Garden and professor of botany at Columbia University, and the other, taken at Cloverset Flower Farm, Kansas City, Mo., shows methods used there for the handling and sale of plants in Cloverset pots.

A business meeting of the Oregon chapter of the American Association of Nurserymen will follow.

Mr. Walker reports that by early December digging and shipping of nursery stock in the Portland area were well along. Wholesalers report a good business this season, while retailers have not fared so well and hope that business will pick up soon.

VIRGINIA DISPLAY SPACE.

When the Virginia Nurserymen's Association holds its annual winter

PONTIAC NURSERY CO., Romeo, Michigan

We offer the following list of Lining-out Stock. Stock graded and ready for early spring shipment.

	8—Seedlings: SWX—Softwood Cuttings.	Per 1000
350	Acanthopanax Pentaphyllum, SWX, 6 to 8 ins.	\$125.00
1000	Acer Ginnala, 1-yr. S, 3 to 6 ins.	65.00
15,000	Berberis Atropurpurea (bushy), 2-yr. S, 6 to 10 ins.	90.00
500	Celastrus Scandens, 1-yr. S, 4 to 6 ins.	65.00
500	Chonanthus Virginicus, 1-yr. S, 1 to 3 ins.	65.00
7000	Cornus Alba Sibirica, 1-yr. S, 6 to 10 ins.	50.00
4000	Cornus Sanguinea, 1-yr. S, 4 to 6 ins.	50.00
1000	Cydonia Japonica, 1-yr. S, 6 to 8 ins.	75.00
1000	Euonymus Alatus, SWX, 3 to 6 ins.	125.00
1000	Euonymus Alatus Compactus, SWX, 4 to 8 ins.	125.00
2000	Euonymus Vedoensis, 1-yr. S, 2 to 4 ins.	60.00
1000	Hippophae Rhamnoides, 1-yr. S, 3 to 6 ins.	50.00
700	Hypericum Denisiflorum, SWX, 8 to 12 ins.	125.00
1500	Ilex Verticillata, 1-yr. S, 1 to 2 ins.	50.00
1000	Ligustrum Vulgare, 1-yr. S, 3 to 6 ins.	50.00
500	Prunus Tomentosa, 1-yr. S, 6 to 8 ins.	75.00
750	Rhamnus Cathartica, 1-yr. S, 4 to 8 ins.	50.00
1000	Rhamnus Frangula, 2-yr. SWX, 8 to 12 ins.	125.00
1000	Rhodotypos Kerrioides, 1-yr. S, 8 to 12 ins.	65.00
4000	Rosa Carolina, 1-yr. S, 6 to 10 ins.	50.00
500	Rosa Lucida, 1-yr. S, 3 to 6 ins.	50.00
500	Rosa Rugosa, red, 1-yr. S, 3 to 6 ins.	50.00
5000	Rosa Rubiginosa, 1-yr. S, 8 to 10 ins.	50.00
9000	Rosa Rubrifolia, 1-yr. S, 6 to 10 ins.	50.00
1000	Salix Purpurea, SWX, 8 to 12 ins.	125.00
750	Shepherdia Argentea, 1-yr. S, 3 to 6 ins.	50.00
2500	Sorbus Aucuparia, 1-yr. S, 4 to 8 ins.	65.00
1000	Spiraea Arguta, SWX, 8 to 12 ins.	125.00
3000	Syringa Villosa, 1-yr. S, 3 to 6 ins.	65.00
1000	Syringa Vulgaris Alba, 1-yr. S, 2 to 4 ins.	65.00
8000	Viburnum Americanum, 1-yr. S, 4 to 6 ins.	65.00
5000	Viburnum Dentatum, 1-yr. S, 3 to 6 ins.	65.00
7000	Viburnum Lentago, 1-yr. S, 4 to 8 ins.	65.00
1000	Viburnum Opulus, 1-yr. S, 4 to 6 ins.	65.00
1000	Viburnum Pubescens, 1-yr. S, 2 to 4 ins.	65.00
1000	Viburnum Sterile, SWX, 4 to 8 ins.	125.00
7500	Juniperus Virginiana, 2-yr. S, 4 to 6 ins.	50.00
25,000	Juniperus Virginiana, 2-yr. tr., 4 to 6 ins.	80.00

ROOTED HARDWOOD CUTTINGS

1000	Lonicera Bella Albida, 12 to 18 ins.	50.00
1000	Lonicera Bella Albida, 18 to 24 ins.	50.00
1700	Populus Italica Nigra, 12 to 18 ins.	50.00
1000	Salix Niohe, 12 to 18 ins.	50.00
750	Salix Pentandra, 12 to 18 ins.	50.00
500	Spiraea Froebeli, 6 to 12 ins.	50.00
1500	Symphoricarpos Vulgaris, 12 to 18 ins.	50.00
500	Tamarix Africana, 6 to 12 ins.	50.00
1500	Tamarix Africana, 12 to 18 ins.	50.00
500	Tamarix Gallica, 6 to 12 ins.	50.00

All stock is well rooted and most are large enough for immediate planting.

Make your reservations now before assortments are broken. Usual terms to reliable nurserymen.

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Romeo, Mich.

FLOWERING CRABS and FRUIT TREES

Malus loensis, Atrorosea, Floribunda, Aldenhamensis, Coronaria and Hopsa.
5 to 6 ft., 85c each; 6 to 7 ft., \$1.25 each.

WHITNEY CRAB

1/4-in., \$1.15 each; 1/2-in., \$1.50 each.

SARGENT CRAB

6 to 7 ft., \$2.25 each.

PEARS

Bartlett, Clapp Favorite, Flemish Beauty, Duchess.

1-in., \$1.00 each; 1/4-in., \$1.35 each.

APPLES

Red and Yellow Delicious, Early Harvest, Jonathan, Yellow Transparent, Wealthy, Golden Russet, Baldwin, Northwestern Greening, Northern Spy.

1-in., 75c each; 1/2-in., \$1.50 each.

Prices F.O.B. Addison, Ill.

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Viburnum Rhytidophyllum.

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The Monroe Nurseries
Monroe, Mich.

Get the Best Buy Ilgenfritz

HARDWOOD CUTTINGS

We have some really nice planting-size Hardwood Cuttings. All cut seven inches in length. If you are in need of any of the varieties listed below, we would suggest that you place your order immediately, while we still have a surplus.

Per 1000

ALTHAEA. Boule de Feu, dble., red	\$3.00
ARALIA PENTAPHYLLA. Five-leaved Aralia	5.00
ARONIA MELANOCARPA. Black Chokeberry	3.00
CORNUS STOLONIFERA. Red Ozier Dogwood	2.50
CELASTRUS SCANDENS. American Bittersweet	3.00
CEPHALANTHUS OCCIDENTALIS. Buttonbush	3.00
DEUTZIA CRENATA, double pink	2.50
DEUTZIA PRIDE OF ROCHESTER	2.50
FORSYTHIA FORTUNEI. Upright Golden Bell	3.00
FORSYTHIA SUSPensa. Weeping Forsythia	5.00
HYDRANGEA ARBORESCENS. Native Hydrangea	2.50
LIGUSTRUM AMURENSE. Amur River North Privet	2.50
LIGUSTRUM SINENSE. Amur River South Privet	2.50
LIGUSTRUM OBTUSIFOLIUM. Iboya Privet	3.50
LIGUSTRUM OVALIFOLIUM. California Privet	2.50
LONICERA FRAGRANTISSIMA. Winter Honeysuckle	3.00
PHILADELPHUS CORONARIUS. Silver Leaf Poplar	2.50
POPULUS ALBA. Carolina Poplar	3.50
POPULUS NIGRA ITALICA. Lombardy Poplar	3.00
ROSA MULTIFLORA	3.00
ROSA WICHURAIANA	5.00
SALIX BABYLONICA. Weeping Willow	4.00
SALIX. Basket Willow	3.00
SALIX ELEGANTISSIMA. Thurlow Weeping Willow	4.00
SALIX DISCOLOR. Pussy Willow	4.00
SALIX NIGRA. Native Willow	3.00
SAMBUCUS CANADENSIS. Native Elder	4.00
SPIRAEA BILLIARDI. White	3.00
SPIRAEA CALLOSA ROSEA	3.00
SPIRAEA THUNBERGI	5.00
SPIRAEA VANHOUTTEI	3.50
SYMPHORICARPOS VULGARIS. Coralberry	3.00
WEIGELA AMABILIS, light pink	3.00
WEIGELA HENDERSONI, light rose	3.00
WEIGELA ROSEA, deep pink	3.00
WISTARIA CHINENSIS	5.00

All stock quoted F.O.B. McMinnville, Tenn. Write for our Wholesale Price List or Special Quotations on other stock that you might need.

Boyd
NURSERY COMPANY
McMINNVILLE, TENN.

meeting January 30 to February 1 at the John Marshall hotel, Richmond, there will be display space available to firms wishing to sell to nurserymen. Priced from \$10 to \$50 for a display, the cost of space will be according to size and location. Those desiring space should contact the vice-president of the association, Moultrie Lanier, 2016 Sledd street, Richmond, Va.

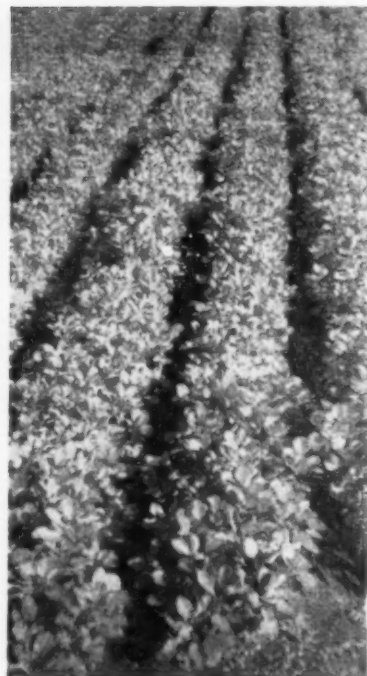
LONG ISLAND SCHOOL FOR NURSERY EMPLOYEES.

For the fifth consecutive year the faculty of the school of horticulture of the Long Island Agricultural & Technical Institute, Farmingdale, N. Y., with the assistance of some outside speakers, will present January 24 to 28 a program of instruction designed to bring additional knowledge and skill to nursery employees. This year, upon request of the patrons of the school, a week-long program is being presented through the cooperation of the institute and the New York State Nurserymen's Association.

Any person employed in a nursery or landscape business or in allied business may attend. A registration fee of \$3 is charged, and meals may be obtained at the institute's dining hall. Because the institute's dormitories are already crowded, lodging cannot be provided, but persons desiring accommodations during the school are recommended to the Huntington hotel, Huntington, or the Garden City hotel, Garden City. Those wishing to enroll for the school should make immediate application to Carl F. Wedell, head of the school of horticulture, Long Island Agricultural & Technical Institute, Farmingdale, N. Y.

Registration will start at 8:30 a. m. January 24 in Knapp Hall lounge, and all morning sessions will be held in that room. For the afternoon sessions, each person must join one of two workshop groups, either one on landscape design or one on nursery operations.

The group on landscape design will meet each afternoon from 1:10 to 4 o'clock in the drafting room with Joseph F. Roesch and Carl F. Wedell. This workshop will consist of discussions of principles of composition and design and the techniques of drawing simple sketches for use in selling the customer and as a guide to planting. Problems will be assigned and much of the time will be devoted to developing plans in the drafting room. Drawing ability is not necessary, but those selecting this



Rhus cotinus seedlings.

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Two Scarce Items.

Rhus cotinus	Per 100	Per 1000
3 to 6 ins.	\$ 6.00	\$55.00
6 to 9 ins.	9.00	80.00
9 to 12 ins.	11.00	....
12 to 18 ins.	17.50
Kolkwitzia amabilis		
3 to 6 ins.	600	55.00
6 to 9 ins.	9.00	80.00
9 to 12 ins.	11.00

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Wholesale growers of the best
Ornamental Evergreens,
Deciduous Trees,
Shrubs and Roses

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FAINESVILLE, OHIO

group are asked to bring pencils (3B, HB and 2H), an architect's scale rule, a T square and a triangle. Sheets of tracing paper may be obtained at the institute.

The group selecting the workshop on nursery operations will meet each afternoon during the same hours in the greenhouse classroom with Harvey Gray. The general topic will be nursery management. At its first meeting the group will select the problems it wishes discussed.

There will be a dinner in Knapp Hall the first evening at 6 o'clock to be followed by an informal get-together in Knapp Hall lounge, where Kodachrome pictures of Long Island gardens and plants will be shown.

The program for the morning sessions, which will be attended by the combined groups in landscape design and nursery operations, will be held in Knapp Hall lounge. All speakers, unless otherwise indicated, are members of the faculty of the institute. The program is as follows:

JANUARY 24, 9 A. M.

"Salesman or Parrot?" by Robert Davidson and Carl F. Wedell, a discussion of personality factors important in developing effective salesmanship.

"Newer Controls for Insect Pests," by Louis Pyenson.

"Your Trade Organization — The A. A. N.," by Richard P. White, executive secretary, American Association of Nurserymen, an explanation of the importance of the national trade organization to the economic welfare of the nursery business.

JANUARY 25, 9:10 A. M.

"Take a Second Look at the Customer," by Robert Davidson and Carl F. Wedell, a discussion on how to recognize various types of customers and how to treat them effectively.

"Understanding the Nursery Business," by M. Truman Fossum, Cornell University, a discussion of the economic factors which every nursery owner and employee should know.

JANUARY 26, 9:10 A. M.

"Always a Salesman," by Carl F. Wedell, a discussion of the triple play in sales—employer to employee to customer.

"The Newer Controls for Plant Diseases," by Louis Pyenson.

"Plants for the Landscape Job," by Clarence E. Lewis, a discussion of plant forms, textures and colors to fit various landscape uses.

JANUARY 27, 9:10 A. M.

"Prospecting for Sales," by Robert Davidson and Carl F. Wedell, a discussion of where to look for and how to get more customers.

"Machinery Helps for the Landscaper and Nurseryman," by Mead Stone, formerly vice-president of Malvese & Co., New Hyde Park, N. Y.

"Plants for the Landscape Job," by Clarence E. Lewis, discussion continued from the preceding morning.

JANUARY 28, 9:10 A. M.

"Peace or War in Selling," by Robert Davidson and Carl F. Wedell, a discussion on how to avoid conflicts in selling.

"Plants for the Landscape Job," by Clarence E. Lewis, discussion continued from the preceding morning.

LINERS

Well Grown

Spring Delivery

DECIDUOUS

Red Barberry, 2-yr. sdgls., 9 to 12 ins.
 Bayberry (Myrica), 1-yr. trsp., 4 to 8 ins.
 Cotoneaster adpressa, 2-yr., pots, 6 to 8 ins.
 Euonymus alatus, 2-yr., 2 trsp., 10 to 12 ins.
 Euonymus alatus compactus, 1-yr., pots.
 2-yr. trsp., 6 to 12 ins.
 Euonymus radicans erecta, 1-yr., pots.
 Euonymus vegetus, 2-yr., pots.
 Kolkwitzia amabilis, 1-yr., pots.
 Mahonia aquifolium, 1-yr. sdgls.
 Mountain Ash (Sorbus), 2-yr. trsp., 18 to 24 ins.
 Rhus cotinus, 1-yr. sdgls.
 Viburnum burkwoodi, pots.

EVERGREENS

Juniperus hetzi glauca, pots.
 Picea pungens glauca, 2 trsp., 6 to 10 ins.
 Taxus columnaris (Adams), 4-yr., 8 to 10 ins.
 Taxus hatfieldi, 4-yr., 6 to 8 ins.
 Taxus hicksi, 4-yr., 8 to 10 ins.
 Thuja occidentalis, sdgls., 10 to 15 ins.
 Thuja pyramidalis, 3-yr., 10 to 12 ins.
 Tsuga (Hemlock), trsp., 8 to 10 ins.

Write for special quotations.

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EVERGREENS ORNAMENTALS

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WILLOW

Wisconsin Weeping

	Per 100	Per 1000
18 to 24 ins.	\$2.75	\$22.50
2 to 3 ft.	3.50	30.00
3 to 4 ft.	4.50	40.00

Niobe Weeping

	Per 100	Per 1000
18 to 24 ins.	3.00	25.00
2 to 3 ft.	4.00	35.00
3 to 4 ft.	5.00	45.00

VIBURNUM AMERICANUM

Am. High-bush Cranberry

	Per 100	Per 1000
1-yr., 2 to 4 ins.	2.50	20.00
1-yr., 4 to 6 ins.	3.50	30.00
1-yr., 6 to 9 ins.	5.00	45.00

BERBERIS THUNBERGI

	Per 100	Per 1000
1-yr., 4 to 6 ins.	2.00	15.00
1-yr., 6 to 9 ins.	3.00	25.00

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Nice Whole-root Clumps

Immediate or spring shipment.

Large forcing size, 5 to 8 eyes and up, 32c.

Regular size, 3 to 5 eyes, 25c.

Divisions for potting up or lining out,
\$5.00 per 100, \$45.00 per 1000.

Immediate or spring shipment.

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EVERGREENS POTS

		Per 100
1200	Taxus Capitata, 6 to 8 ins.	\$25.00
2000	Taxus Cuspidata, 6 to 8 ins.	22.50
1500	Juniperus Hetzi Glauca, 6 to 8 ins.	25.00
12,000	Juniperus Chin. Pfitzeriana, 6 to 8 ins.	50.00

FIELD FRAMES

5000	Juniperus Hetzi Glauca, 6 to 8 ins., 2-yr.	25.00
5000	Juniperus Hetzi Glauca, 6 to 8 ins., 1-yr.	20.00
2000	Juniperus Hor. Pl. (Andorra), 6 to 8 ins., 2-yr.	20.00
4000	Juniperus Hor. Pl. (Andorra), 6 to 8 ins., 1-yr.	17.50
600	Picea Albertiana, 6 to 9 ins.	25.00
300	Picea pungens Glauca, 9 to 12 ins.	40.00
2000	Taxus Cuspidata, 4 to 6 ins., 2-yr.	20.00
2000	Taxus Cuspidata, 4 to 6 ins., 1-yr.	18.00
2000	Taxus Capitata, 4 to 6 ins., 1-yr.	18.00
1200	Taxus Intermedia, 4 to 6 ins., 2-yr.	20.00
1200	Taxus Media Hicksi, 4 to 6 ins., 2-yr.	20.00
1300	Taxus Media Hicksi, 6 to 8 ins., 2-yr.	18.00
2000	Thuja Occ. Globosa, 6 to 8 ins., 2-yr.	20.00
4000	Thuja Occ. Globosa, 4 to 6 ins., 1-yr.	17.50
2000	Thuja Occ. Globosa, 4 to 6 ins., 1-yr.	17.50

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An order for 25 of the same variety and size sold at the 100 rate.

Minimum order, 100 plants.

We would welcome your inspection at Convention time. Location is 18 miles west of Chicago on Alternate U.S. 30.

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EXTRA-NICE IRISH JUNIPERS

4½ feet and 5 feet tall. Plants are full in body with compact foliage. They stand very trim and erect. Easily worth the price. \$3.50, F.O.B. Scottsville; \$4.00, F.O.B. Dallas.

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ROSEBUSHES

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Grown Right

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Shipped when you want them.

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Write for variety and price lists.

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Liners and B&B

Loquat—Weeping Willow
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SEMMES NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens.

Wholesale Catalog SEMMES, ALA.

PLAN ST. LOUIS SCHOOL.

At the December meeting of the St. Louis Landscape and Nurserymen's Association it was decided to hold a school on landscape and nursery practices similar to the one conducted last year. The school will be for members and their employees. While a school on general subjects will be conducted, it is also planned to specialize in some phases, such as landscape design and propagation. Questionnaires are being mailed to members to obtain the probable number of students that may be expected and the selection of topics for specialization. The school will be held during January and February, with daytime classes only. The major part of the instruction again will be handled by various members of the association, with special subjects to be considered by experts in their respective fields.

More than twenty students completed the course last year, and there was an immediate request for a repetition of the school, with more specialization, as last year's course was general, covering the entire field. Textbooks covering landscape design, propagation, fertilizers, diseases and insect pests were given each student at the opening of the course.

GLADIOLUS MEETINGS.

Announcement has been made by Prof. Donald P. Watson, department of horticulture, Michigan State College, that the National Gladiolus Conference will meet January 19 and 20 at Michigan State College, East Lansing.

The fourth annual meeting of the North American Gladiolus Council will be held January 21 to 23 at the Royal York hotel, Toronto, Ont., Canada. Requests for hotel and banquet reservations should be made to Leonard W. Butt, Huttonville, Ont.

WILLIAMSBURG SYMPOSIUM.

The third annual Colonial Williamsburg garden and flower symposium has been scheduled for February 28 to March 4 at Williamsburg, Va. The program will include talks by recognized experts in their fields, discussion periods and exhibits, with sixty acres of eighteenth century gardens of this restored city as a working laboratory. Sponsored by Colonial Williamsburg as a part of its educational program, the symposium is open to both professional and amateur gardeners. Among the talks scheduled are one on "Colonial Garden Design

in New England" by Prof. Bremer Pond, head of the department of landscape architecture, Harvard University, and one on "Colonial Garden Design in Virginia" by Alden Hopkins, resident landscape architect of Colonial Williamsburg. Inquiries for all-inclusive rates for the 5-day meeting should be directed to Colonial Williamsburg, Goodwin Building, Williamsburg, Va.

OKLAHOMA CITY NEWS.

Members and guests of the Oklahoma City Nurserymen's Association met December 14 at 7:30 p. m. at Beverly's Drive-in for their annual Christmas party. The nurserymen's wives were special guests for the holiday meeting. All enjoyed a delicious buffet dinner, the entertainment of Dr. Stackpole, a magician, and dancing.

W. D. Kenyon, manager of the growing farm of Kenyon's Nursery, was confined last month to a hospital at Memphis, Tenn., where he was recovering from an illness. He was expected to be home for Christmas.

Mr. and Mrs. A. B. McFarland, McFarland Nursery, left December 2 on an extended trip west. Their itinerary included the Notre Dame-Southern California football game, a visit to Hawaii and the New Year's day football game in the Rose Bowl.

Moderate rains which fell in mid-December were a welcome relief to nurserymen in the Oklahoma City area, whose work had been hindered by continuous drought, which is not usual at that season. The ground had been too hard to use machinery for digging stock; so nurserymen had the additional problem and expense of digging it by hand. The business outlook is good, however, and nurserymen report a good volume of orders.

Betty H. Prim.

NEW PLANT PATENTS.

The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 811. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of floribunda class, characterized as to novelty by the color of the flowers and their change from that in the bud stage to that in the full-blown stage, the large size and shape of the flowers, the large number of petals and their arrangement, the strong fragrance of the sweet rose geranium foliage and the distinctive form and color of the foliage.

No. 812. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant, characterized as to novelty by the shape of its blooms and their habit of deepening in color as the bloom grows older, its habit of upright growth and bushiness and its foliage and filament coloring.

LINING-OUT STOCK FOR SPRING, 1949

Grafted Evergreens, 2 1/2-in. pots, \$47.50 per 100; \$450.00 per 1000.

Juniperus virginiana canaerti
 Juniperus virginiana canaerti compacta
 Juniperus virginiana glauca
 Juniperus virginiana elegantissima (Lee), \$55.00 per 100
 Juniperus virginiana burki
 Juniperus virginiana keteleeri
 Juniperus virginiana pyramidalis hillii
 Juniperus chinensis columnaris glauca
 Juniperus chinensis columnaris (Green)
 Juniperus chinensis compacta
 Juniperus chinensis mascula
 Juniperus chinensis stricta
 Juniperus pfitzeriana, 2 1/2-in. pots, 8 to 10 ins., \$25.00 per 100.
 Juniperus scopulorum (Pathfinder)
 Juniperus scopulorum erecta glauca
 Biota aurea nana compacta (Berckmans)
 Biota conspicua

Ask for Complete List.

Also any other kind you wish to have grafted, providing your order for this special kind is in our possession before February 1, 1949.

Our stock is known for first-grade quality.

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SEMMES, ALABAMA

Azaleas, Camellias, Gardenias
 and a General Line of
 Ornamental Nursery Stock
 Lining-Out Stock Our Specialty
 WHOLESALE ONLY

SHRUB SPECIALS

	Per 100
Berberis Thunbergi (transp.), 18 to 24 ins.	\$20.00
Cydonia (Jap. Quince), 18 to 24 ins.	25.00
Forsythia Intermedia, 2 to 3 ft.	30.00
Hydrangea P.G., 2 to 3 ft.	45.00
Snowball, 2 to 3 ft.	45.00
Spiraea A. Waterer, 15 to 18 ins.	25.00
Viburnum Americanum, 2 to 3 ft.	35.00
Viburnum Opulus, 2 to 3 ft.	35.00
Viburnum Lentago, 2 to 3 ft.	30.00

Above stock in storage. Order now for immediate or early spring shipment.

SHERMAN NURSERY CO.
 CHARLES CITY, IOWA

VIBURNUM BURKWOODI

New—Fragrant—Hardy
 Pinkish-white flowers in May
 Heavy pot-grown stock for lining out. Spring 1949 delivery.
 Per 100 Per 1000
 2 1/2-in. pots \$30.00 \$250.00
 F.O.B. Dayton, Ohio

No charge for packing if check accompanies order.

THE SIEBENTHALER COMPANY
 Dayton 5, Ohio

PURPLE WISTARIA

(Wistaria Sinensis)

Blooming strain. Propagated from cuttings taken from blooming wood.

	Per 10	Per 100	Per 1000
2-yr., No. 1.	\$2.90	\$25.00	\$200.00
2-yr., Med.	2.40	20.00	150.00

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
 OTTAWA, KANSAS

WELLER'S PERENNIALS

With That Wonderful Root System
 Headquarters for
 HARDY MUMS AND PHLOX.
 Ask for our Perennial Catalog.
 WELLER NURSERIES CO., Inc.
 Leading Perennial Growers
 HOLLAND, MICH.

DAHLIA ROOTS

We grow many acres of standard cut flower varieties for wholesale trade. Most are the kinds that stand hot, dry weather best.

Write today for wholesale prices list N.

PAYNE DAHLIA FARMS
 Route 5 Kansas City 3, Kansas

Not a Textbook . . .

but a Businessman's Brochure!

**"HOW TO MAKE YOUR OWN
NURSERY ADS THAT SELL"**

By J. H. Slingerland

Now in print! This telegraphically simple 4-step Fundamentals of Nursery Stock Advertising that teaches YOU how to MAKE ADS THAT SELL. Accepted enthusiastically and applauded by over 300 Nurserymen at their annual meetings last year.

BUILT A MILLION-DOLLAR BUSINESS

Written by an Advertising Man turned Nurseryman—this identical 4-step Method built a Million-dollar Nursery business in 3 years. "Worth \$100"—"One hour with this and I can do it"—"Waiting years for this"—"Most understandable thing I've ever seen"—say nursery owners. A university professor said—"Marvelous teaching technique."

GIVES FACTS—NOT GENERALITIES

Here's what this brass-tack, pin-point Brochure tells you, teaches you, does for you . . .

- Gives you complete understanding of the 2 Principles that Make Ads Sell and tells YOU how to apply them yourself.
- Identifies the TWO Fundamentals of Advertising so you can use ads successfully.
- Gives you the 3 STEPS in Planning an Advertising Program that SELLS—and shows you how to work them out automatically.
- Gives the KEY to writing Headlines That Sell, so YOU can write them.
- Tells the SOURCE of Selling Copy and how YOU let it write itself.

TEACHES WITH CONVICTION, PROOF

Dramatic, pointed humor "sugar coats" the calm, logical, telegraphically brief teaching technique, makes the lessons "sink in." No ifs, ands, buts or qualifications—no extra words. One hour with "How to Make Your Own Nursery Ads That Sell" and YOU CAN START building your own ads.

Includes complete artist's drawing of fully executed ad, embodying ALL FOUR STEPS taught you in the Brochure—proving you can do it, because you'll recognize that headlines and copy fit the "lessons" perfectly.

FILLED WITH "PROFIT PLUS" IDEAS

In addition to advertising, this Brochure gives you "no-cost" sales-getting ideas . . .

- How to DOUBLE and TRIPLE the customer flow into your nursery.
- How to get repeated free publicity news items and photographs of your nursery in your local newspaper.
- How to get the whole town talking about your nursery, recommending you.
- How to advertise any item in your nursery so the customer can't buy it anywhere else; he must come to you.
- How to get higher prices for all advertised nursery items.
- How to beat the chains without cutting prices; take their business away.
- Reveals 12 specific, huge sales opportunities this year—when people in your town must spend money—and tells you how to have it spent for Nursery Stock.
- Why the Nurseryman is his own best ad man.

COMPLETE YEAR-ROUND AD PROGRAM

Provides you with a complete year-around advertising program for YOUR nursery—YOUR Own Town—YOUR Local Paper. Twenty years' advertising and selling experience backs up every recommendation. You'll agree with everyone—NOW KNOW how to do them yourself—quickly, confidently, successfully.

Price only \$5.00 per copy

Available direct from author only. He was formerly Advertising Manager of Montgomery Ward's Nursery Stock Department; Director of Dale Carnegie Institute, Chicago; Guest Professor, Northwestern University. Order today—send check or money order. This Brochure tells How, What and Why to start advertising in March, 1949. Price, \$5, complete. Order today to be ready for a fast, profitable start.

J. H. SLINGERLAND,
Wheaton, Illinois

OBITUARY

Charles W. Howard.

Charles W. Howard, 81, founder of the Howard Rose Co., Hemet, Calif., died November 4 at his home. He was chairman of the board at the time of his death.

Mr. Howard started his business in 1908 on five acres of land at Hemet. Within six months he had planted over 100 varieties of roses and had erected a propagating house containing many seedbeds and over 100,000 softwood cuttings. The business grew rapidly, and today about a million rosebushes are shipped annually.

Before starting his own business, Mr. Howard had been secretary of the Chase Nurseries, Riverside, Calif., where he learned the rose-growing business under the advice and guidance of Ethan Allan Chase.

Frank A. LaPointe.

Frank Albert LaPointe, 66, nurseryman at Geneva, N. Y., for the past forty years, died at his home there December 11.

Mr. LaPointe was born in Newark, N. Y. He married Miss Fern Welcher in 1907 and the following year went to Geneva as sales manager for Chase Bros. Nursery Co. Three years later he founded the LaPointe Nursery Co., which he operated for thirty years. For the past seven years he had been manager of the Graham Charlton Nurseries, Inc., at Geneva.

For the past fifteen years Mr. LaPointe had been treasurer of the First Presbyterian church and was a member of its board of trustees. He was also president of the Masonic Temple Building Corp for the past fifteen years and was a past master of Ark lodge. In 1932 he became a member of the city's board of assessors, and for the past few years had been a member of the advisory committee of the Lincoln Rochester Trust Co., Geneva branch.

Survivors include his widow; a daughter, Mrs. Howard C. Fish; two sisters, and a niece.

Dr. S. M. Zeller.

Dr. S. M. Zeller, plant pathologist, Oregon agricultural experiment station, Corvallis, died November 14 from a heart attack. Dr. Zeller joined the staff of Oregon State College in 1919, after receiving his doctorate at Washington University, St. Louis, Mo. Most of the diseases that have plagued berry and fruit tree growers in Oregon since that time received his attention, and in recent years his

VUYK VAN NES

BOSKOOP

HOLLAND

Originators of Azalea Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering, bloom with foliage; in one white variety and several in nonfading colors.

Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.

Exports to the U. S. A. receive special preparation, cleaning and packing for best results. All stock carefully graded. New York office handles all import details at no extra cost.

Please direct all your correspondence to:
140 Cedar Street New York 6, N. Y.

VUYK VAN NES NURSERIES**"BRODLEAF" HOLLAND PEAT MOSS**

PROPERLY MATURED—REMILLED
THE QUALITY EXCELLENT.

ATTRACTIVE PACKAGES

Ready to use—or sell retail

10 Large 3 1/2-bushel Bags \$15.00

20 Large 3 1/2-bushel Bags 29.00

50 Large 3 1/2-bushel Bags 70.00

10 Medium 1 3/4-bushel Bags 10.00

30 Medium 1 3/4-bushel Bags 24.00

SHIPPED FROM JERSEY TWICE A WEEK.

Will quote on larger lots. Also carlots, bales.

Three sizes of bales via all U. S. ports.

JUMBO EXTRA STANDARD

Straight cars or assorted cars of all sizes.

HALF MOON MANUFACTURING & TRADING COMPANY, INC.

90 West Street New York 6, N. Y.

IN CARLOTS

American Elm, 1 1/4 and 1 1/2-in.
Thurlo Willow, 5 to 6 ft., up to
1 1/2-in.

Apple, 2 and 3-yr., XX,

11/16 and 9/16-in.

Peach, 5/16 up to 9/16-in.

Lesser Quantities of:

Pear, Plum and Cherry.

Berberis Thunbergi, 12 to 18 and
18 to 24 ins.

Forsythia, Honeysuckle Bush,
Spiraea and Symphoricarpos in
variety.

EVERGREENS

C. M. HOBBS & SONS, Inc.
BRIDGEPORT, IND.

FOR PROMPT ACTION

Send us your Surplus List.

GROWERS EXCHANGE, Inc.

Brightmoor Sta., DETROIT 23, MICH.

"CAMELLIAS ILLUSTRATED"

Up-to-the-minute guide to Camellia culture. Beautiful new color plates. Complete treatise. 160 pages; 266 illustrations.

Cloth-bound, \$5.00 postpaid;
spiral-bound, \$4.00.

OREGON NURSERYMAN & FLORIST
Corvallis, Ore.

chief attention was directed to virus diseases of stone fruits. He and his associates brought about certification of bud and scion wood for use by nurserymen to insure virus-free nursery stock. He was coauthor with Dr. J. A. Milbrath of an article on this subject in the September 1, 1948, issue of the American Nurseryman.

Lonnie Lewis.

Lonnie Lewis, 57, who for the past four years operated a nursery at Sixty-third street and Western avenue, Oklahoma City, Okla., died December 13 of a heart attack. He had formerly resided at Watonga, Okla.

B. H. P.

S. C. Schenewerk.

S. C. Schenewerk, who operated the Schenewerk Nursery, Lexington, Mo., died December 12.

**INDIANA NURSERY ISSUES
HUMOROUS BULLETIN.**

Customers of Mathews Nursery, Gary, Ind., receive entertainment and information from an 8-page bulletin published every three months by the owner of the nursery, Irvin J. Mathews. "The Green Thumb," as the bulletin is called, contains planting information for home gardeners, jokes and editorials, as well as price lists of stock currently available at the nursery. Photographs of landscaped homes and office buildings, sent in by the customer-readers, are reproduced to illustrate landscape jobs done by Mathews Nursery. Over 17,000 copies of the October issue were distributed by Editor, Mathews.

CATALOGS RECEIVED.

Lake's Shenandoah Nurseries, Shenandoah, Ia.—Wholesale trade list of fruit trees, deciduous and evergreen shrubs and trees and perennials; 48 pages, 6x9 inches.

Armstrong Nurseries, Ontario, Calif.—Retail catalog of roses, camellias, evergreen trees and shrubs, flowering vines, deciduous trees and shrubs and fruit trees; handsomely illustrated in color; 108 pages, 8½x11½ inches.

Gresham's Nursery, Richmond, Va.—Retail descriptive price list of evergreens, flowering trees and shrubs, vines and fruit trees; 24 pages and cover, 6x9 inches.

Inter-State Nurseries, Hamburg, Ia.—Retail catalog of fruit trees, small fruits, vines, shrubs, trees, rosebushes, bulbs, perennials, seeds and supplies; handsomely illustrated, partly in color; 80 pages and cover, 7½x10¼ inches.

WALLACE PIERSON, JR., treasurer and general manager of A. N. Pierson, Inc., Cromwell, Conn., was elected president of the New York Florists' Club at its meeting December 13.

**Nekoosa-Edwards Paper
Company
NEPCO LAKE NURSERY**

Port Edwards, Wis.

Growers of
**LINING-OUT EVERGREENS
SEEDLINGS and TRANSPLANTS**

Write for
SPRING PRICE LIST

Member of
American Association of Nurserymen

DRIEHUIZEN BROTHERS

Bulb Growers and Exporters
LISSE, HOLLAND—EUROPE

We have carload service to all major cities
in the U. S. A. Save on freight, get your
bulbs on time!

Write us for details.

American address: 44 Whitehall St., Room 605, New York 4, N. Y.

**Peter Grootendorst J. M. Son
BOSKOOP, HOLLAND**

Exporters of Nursery Stock since 1898
Rhododendrons, Azaleas, Shrubs, Trees, Peonies, Liners, etc.
Catalog free on application.

Mention The American Nurseryman when you write.

**Holland-Grown
Nursery Stock**

Shrubs and Trees,
including liners.
Rhododendrons and Azaleas
Hardy Perennials
Peonies
NOVELTIES IN ALL LINES
Ask for wholesale catalog.

**F. J. Grootendorst & Sons
BOSKOOP, HOLLAND**
Growers and exporters since 1903.

Quality Holland Bulbs

C. WESTERBEEK & SON, Inc.
Wholesale Growers and Exporters.
Sassenheim 44 Whitehall St.
Holland New York, N. Y.
Write for price list.

W. E. & R. VAN HERREWEGHE

Export Nurseries
SERSKAMP, near GHENT, BELGIUM

**A Better Source of
ROSES
FRUIT TREES and STOCKS
ORNAMENTAL and
FOREST PLANTS
LINING-OUT TREES and
SHRUBS
EVERGREENS**

Price list on application.

Maurice C. Ravensberg

Boskoop, Holland

Reliable firm for general Nursery Stock
and Belgian plants.
Catalog on application.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

TREES AND CIVILIZATION.

Nurserymen, in spite of their present publicity consciousness and interest in advertising, do not use to full advantage the glamour and romance of their product, trees. I doubt if there is anything of which anyone can think that has the potential glamour that they have.

The present rash of nonfiction books on the subject of soil depletion and the misuse and abuse of our resources reminds me that a few years ago I thought it would be a good idea to write a book on trees and their influence on civilization. I had not proceeded far with my research when I discovered that the book had been written, although from a different viewpoint than mine and probably in a better manner than I could have done. The book to which I refer is "Deserts on the March" by Paul B. Sears, a middle western botanist. The book was written in the middle 1930's, and the author was mostly concerned with the much-in-evidence dust bowl.

My own thesis was that the presence, nurture, abuse and destruction of the forests followed a definite pattern in the rise and fall of civilizations. History indicates that forests have been one of the three key features of civilization. These three features are, first, an environmental stimulus strong enough to make people aggressive enough to struggle for a living; second, the development of a permanent agriculture and the use of the necessary six inches of topsoil to permit the parallel development of the arts and the sciences through the use of surplus food and energy, and third, the maintenance of the forests which keep the six inches of topsoil producing. The major and minor civilizations all seem to fit into this pattern, either directly or indirectly.

Historians claim that civilizations arose not in places where climate and food supply, etc., were ideal, such as on a tropical isle, but rather in areas where sufficient effort was necessary to make food plants grow to act as a stimulus for the people and to force them to be energetic. If the adversity was too great, all their energy was necessarily used in mere existence, and there was then no surplus for leisure. The aborigines of central Australia and the Eskimos of the far

north are examples of these. The stimulus of our own civilization has been a cool but not a cold climate.

The cradle of all civilizations was the Mediterranean area and the Near East. Here the ancient civilizations of Babylon, Egypt, Greece and their lesser offshoots waxed great, flourished and then died. This area is subtropical and semiarid. It was never lush tropics, and only certain valleys, foothills and mountains were forested. In the valley of the Tigris and Euphrates rivers it was necessary to build canals and terraces before the people there obtained a permanent agriculture. In the valley of the Nile river the Egyptians had to construct an irrigation system that would permit the river to flood the plains and enrich the soil. In Greece the struggle was against rocks in narrow valleys.

Of course, it oversimplifies the story to say that as the population encroached onto the foothills and the forest was destroyed, the Tigris and Euphrates rivers flooded their valleys and eventually flooded Ur under many feet of silt, yet that is not the true picture. Similarly, the failure of the Nile floods brought ever-recurrent famines and the encroachment of the Sahara desert. The Greeks farmed their slopes, depleted their soils and took to conquest. The same story seems to follow in other parts of the same area. Once the Romans obtained much of their food from the Cyrenaican shore of the Mediterranean sea, where only recently Rommel and Alexander fought over rock and desert. The Hebrew civilization of the days of Solomon faded with the destruction of the forests of Lebanon.

In other parts of the world the story has been similar, even though the succession may have varied. Today in much of China there are not only no forests but there are no trees. The need for wood is so great that trees do not have a chance to grow



ROSES

For Forcing or Rose Gardens
TWO-YEAR, FIELD-GROWN

(Budded on Japonica Multiflora)

These Roses are GROWN RIGHT—GRADED RIGHT—SHIPPED RIGHT.

ORDER TODAY FROM THIS AD.

PRICES

500 Lots and over: No. 1, 40c; No. 1½, 30c; No. 2, 25c.
100 to 500 lots: No. 1, 45c; No. 1½, 35c; No. 2, 30c.

Orders for less than 100 Roses: No. 1, 50c; No. 1½, 40c; No. 2, 30c.

ORDER GROUPS OF 10. WE DO NOT BREAK BUNDLES. We will wrap these Roses in individual packages and label for an additional 5c each.

TERMS: CASH WITH ORDER AND NO CHARGE FOR PACKING. WE WILL, HOWEVER, ACCEPT 25% WHEN ORDER IS PLACED—BALANCE C.O.D. PACKING CHARGES ON ALL C.O.D. ORDERS.

REDS

Red Radiance
Etoile de Hollande
Poinsettia
Ami Guillard
E. G. Hill
Rouge Mallerin
Grenoble

PINKS

Pink Radiance
Editor McFarland
Columbia
Mrs. Charles Bell

WHITES

Konigin Luise
K. A. Viktoria
Caledonia
YELLOWS
Golden Dawn
Luxembourg
Golden Ophelia
Sœur Therese
Yellow Tullman

VARIATED or

MULTICOLORS
Betty Grace Clark
Edith Nellie Perkins
President Hoover
Tullman
POLYANTHAS
Else Poulsen
Golden Salmon
Ideal

CLIMBING ROSES

Paul's Scarlet
Red Radiance
Climbing Tullman
F. K. Druschki

ORDER TODAY FROM THIS AD.

Delivery made now or in Spring

OZARKS PLANT FARMS, INC.

533A Seminole Drive

SPRINGFIELD, MO.

1887

1949

**WE OFFER
FOR 1949**

our usual line of

SHRUBS - EVERGREENS
FOREST AND SHADE TREES
VINES AND CREEPERS

Trade List mailed on request.

FOREST NURSERY CO., INC.

J. R. Boyd, Pres. McMinnville, Tenn.

**COMPLETE ASSORTMENT
OF**

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.

Onarga, Ill.

WHOLESALE PRICE LIST

250,000 CHINESE ELM,	
1-0, seedlings.	Per 1000
6 to 12 ins.	\$ 6.00
12 to 18 ins.	10.50
18 to 24 ins.	15.00
2 to 3 ft.	22.50
3 to 4 ft.	33.75
20,000 MULBERRY, 1-0, seedlings.	
6 to 12 ins.	7.50
12 to 18 ins.	12.00
18 to 24 ins.	18.75
4150 MAPLE, 1-0, seedlings.	
6 to 12 ins.	8.00
18 to 24 ins.	21.00
2 to 3 ft.	30.00
3500 CHINESE ARBORVITAE,	
2-0, seedlings.	
Bed-grown for hedging.	

Terms: 2 per cent in 10 days.

Net 30 days.

Packing extra at cost.

F.O.B. Manhattan, Kans.

PIPER - FILBY NURSERY

426 Kearney MANHATTAN, KANS.

LAKE'S**SHENANDOAH NURSERIES**

Shenandoah, Iowa.

*Wholesale growers of
a fine assortment of***GENERAL NURSERY STOCK**

Your inquiries will be appreciated.

**ORNAMENTAL
EVERGREENS**

Liners and B&B

BROWN DEER NURSERIES

P. O. Box 1747

Milwaukee 1, Wis.

**America's Best Source
for Hardy Plants Is****THE WAYSIDE GARDENS**
MENTOR, OHIO
*Write for Trade List.***BURTON'S****HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.**
*RARE ITEMS YOU DO NOT
FIND IN MOST LISTS! Write!***HILLTOP NURSERIES**
CASHTOWN, OHIO

long. As a result, China is terribly impoverished, its principal river is called "China's Sorrow," and its hinterland is a wind-swept desert. The extremes of heat and cold are great. The soil fertility is barely maintained by use of sewage. The only area of any fertility is the loess area of central China, where in ages past the topsoil of the Gobi desert was deposited many feet deep, but even here there is one of the world's worst erosion problems.

Even in the two chief civilizations of pre-Columbian America, the story is similar. The Aztecs of Mexico built their civilization around corn. They burned the savannas, planted the corn until the soil wore out and then moved on to new locations. Even had Cortez not interrupted the cycle, the end would have been the same. The Incas of Peru built their permanent agriculture around terraces, and only here do we find the relation of forests obscure. Perhaps, and this is only a wild guess, the basis of their agriculture was too precarious and it failed because there was no forest balance at all.

We are too close to our own great western civilization of Europe and America to establish a pattern. Climatically speaking, it is different because it is located in the temperate zone rather than the subtropics. It is much less precarious because it is spread away from semiarid lands, but we are hearing our warnings on all sides, just the same. In Europe there are sections of badly depleted soil, in Greece, in Hungary and elsewhere. Forests are so badly depleted that there is insufficient wood for construction or fuel.

Similarly, in America we are having our warnings not only in the dust bowl but in the abandoned farms of New England and the Finger lake region, the eroded cotton farms of the Piedmont, the corn lands of the middle west, the disastrous floods of the east or the droughts and underground water shortages of California.

We are becoming conscious of our troubles, and our civilization is certainly in a turmoil. Perhaps we can save it, but it will surely involve the retention of our forests in proper balance. Trees and forests are not luxuries in any sense; in fact, their importance extends beyond primary industrial use. The product we nurserymen grow is really one of the essentials to the development and continuation of civilization. E. S. H.

A LANDSCAPING business is being organized by Mrs. V. Woodson Vest, Roanoke, Va.



Growers of a complete
line of deciduous and
coniferous species.

JEWELL NURSERIES, INC.

Lake City, Minn.

Northern-grown Stock

Send
for
Price
List.

J. V. BAILEY NURSERIES

St. Paul 6, Minn.

**ORNAMENTALS
TREES SHRUBS
EVERGREENS**

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

CYDONIA JAPONICA

(Chaenomeles)

Flowering Quince

Superior upright strain.

Bright red flowers—Cutting-grown

	Per 10	Per 100	Per 1000
2 to 3 ft.	\$3.50	\$30.00	\$250.00
18 to 24 ins.	2.50	22.00	200.00
12 to 18 ins.	1.80	16.00	140.00

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
OTTAWA, KANSAS

EVERGREENS— FLOWERING SHRUBS

Juniperus Hibernica Fastigiaea. Improved Irish Juniper. (Heavy, well sheared specimens)		
	Each	
3 to 4 ft., B&B.	.....	\$2.00
4 to 5 ft., B&B.	.....	2.50
5 to 6 ft., B&B.	.....	3.00
Buddleia Ile de France and Farquhar. Butterfly Bush.		
	Per 100	
2 to 3 ft., br.	.....	\$25.00
18 to 24 ins., br.	.....	20.00
Spiraea Vanhouttei, 2-year Plants.		
3 to 4 ft., br.	.....	20.00
2 to 3 ft., br.	.....	15.00
18 to 24 ins., br.	.....	10.00
Lonicera Fragrantissima. Winter Honeysuckle.		
4 to 5 ft., br.	.....	45.00
3 to 4 ft., br.	.....	35.00
Berberis Thunbergi. Green Barberry.		
2 to 3 ft., br.	.....	15.00
18 to 24 ins., br.	.....	10.00
Berberis Atropurpurea. Red Barberry.		
18 to 24 ins., br.	.....	30.00
12 to 18 ins., br.	.....	20.00
4 to 6 ins., sdgs.	.....	40.00
6 to 10 ins., sdgs.	.....	60.00
10 to 15 ins., sdgs.	.....	100.00

WRITE FOR OUR SPRING
WHOLESALE LIST.

SOUTHERN NURSERY & LANDSCAPE CO.
Winchester, Tenn.

We Offer For Spring, 1949

FORSYTHIA FORTUNEL			Per	Per
Golden Bell.			100	1000
6 to 12 ins., 1-yr. C.	.....	2.00	15.00	
12 to 18 ins., 1-yr. C.	.....	2.50	20.00	
18 to 24 ins., br.	.....	3.50	30.00	

LIGUSTRUM OVALIFOLIUM. California Privet.				
6 to 12 ins., 1-yr. C.	.....	1.25	10.00	
6 to 12 ins., br.	.....	2.00	15.00	
12 to 18 ins., br.	.....	2.50	20.00	
12 to 18 ins., 2-yr. br.	.....	3.50	30.00	
18 to 24 ins., 2-yr. br.	.....	4.00	35.00	

LIGUSTRUM IBOLIUM. Ibolum Privet.				
12 to 18 ins., 1-yr. C.	.....	2.00	15.00	
12 to 18 ins., 1-yr. tr.	.....	2.50	20.00	
18 to 24 ins., 1-yr. tr.	.....	3.00	25.00	

O. H. Perry Nursery Co.
Box 545 McMinnville, Tenn.

WE CAN STILL SUPPLY

Apples, fine, 2-year, all grades.
Peach Trees, 1-year-old stock, all grades and latest popular varieties.
Plums and Apricots—we still have a good supply.
Cherry Trees, Early Richmond and Montmorency.
Shade Trees and Evergreens.
A few good Pecans and Roses.
June Bud Peaches, now ready for sale.
Good lot of varieties.

Write for Prices.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

SPRAY FORMULAS FOR PHLOEM NECROSIS OF ELM.

To meet the general demand for information about the phloem necrosis disease of elms in the southern part of Illinois, where large losses of elms have occurred in some towns and cities, the Illinois Natural History Survey Division, at Urbana, has issued a mimeographed circular of four pages, answering the most frequent questions on this subject.

Besides information as to the location, severity and recognition of this disease, which has frequently been published, the circular presents special formulations of DDT, to control the leaf hopper that carries the virus, as suggested by entomologists of the United States Department of Agriculture, working at Columbus, O. These formulations are applied as sprays and must be put on in large amounts by high-powered machinery. The sprays must cover completely the undersides of all leaves, to insure complete control of the leaf hoppers.

At present only two types of equipment are recommended: Hydraulic sprayers that develop 500 to 600 pounds of pressure and deliver thirty-five to forty gallons of spray per minute; such sprayers cost about \$3,000. Mist-blower sprayers that deliver 6,000 cubic feet of air per minute, more for very large trees, at a velocity of about 120 miles per hour; such sprayers cost from \$2,000 to \$3,000.

Mist-blower sprayers are preferred to hydraulic sprayers. Low-capacity hydraulic and mist-blower sprayers, fog generators and airplanes are not recommended, because of their inability to cover completely the undersides of the leaves with a sufficiently heavy deposit of DDT.

Two stock formulations are given below, one for use with hydraulic sprayers, the other with mist-blower sprayers:

Hydraulic sprayer formulation, to make thirty-eight gallons of stock material: 100 pounds technical DDT, fourteen and one-half gallons benzene, six and one-quarter gallons Velsicol AR-50, six and one-quarter gallons Acme white oil and one gallon Triton X-100. Mix the benzene and Velsicol AR-50 and dissolve the DDT in this mixture. Then add the Acme white oil, then the Triton X-100. Exercise great care in handling benzene; its vapor is poisonous and inflammable. Use this stock material at the rate of three gallons to 100 gallons of water. Add the stock to one-quarter tank of water with the agitator running and then add the

AMERICAN NURSERYMAN

SURPLUS ITEMS

150 Althaea Amplissimus,	Per 100
2 to 3 ft., br.	\$15.00
300 18 to 24 ins., br.	10.00
300 12 to 18 ins., br.	6.00
100 Salix Babylonica, 5 to 6 ft., light br.	20.00
300 4 to 5 ft., whips.	12.00
300 3 to 4 ft., whips.	8.00
500 2 to 3 ft., whips.	5.00
500 Philadelphus Coronarius, 18 to 24 ins., 2-yr., br.	15.00
500 6 to 18 ins., liners.	5.00
100 Cornus Florida, 4 to 5 ft., well br., S.	40.00
500 Buddleia Magnifica, No. 1, br.	12.00
500 6 to 18 ins., liners.	6.00
500 Buddleia Ile de France, No. 1, br.	15.00
500 6 to 18 ins., liners.	7.50

This stock is nursery-grown and well rooted. Order will be acknowledged as received and shipped to your instructions. Send your want list for quotations on other stock grown in this area.

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Tips and Transplants

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L.O. Seedlings, Shades, Ornamental Stock, Evergreens.

Red Cedar seedlings, Hemlock, Maple, Dogwood, Tulip Poplar, Willow, Oak, Shagbark Hickory.

TREE SEEDS—Dogwood, cured,
75c per lb.

Calycanthus, Hemlock (Tsuga), Pine seedlings, 6 to 10 ins., 10 to 20 in lot, \$12.50 per 1000.

Write for Wholesale Price List.

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CONCORD and FREDONIA, \$4.00 per 1000, F.O.B. here. Tied with wire, 100 to bunch. Guaranteed true to name. Cut from our young, thrifty vineyard by experienced workmen.

IDEAL FRUIT FARM Stillwell, Okla.

remainder of the water. This diluted spray costs about 4 cents per gallon.

Mist-blower formulation, to make forty gallons of stock material: 100 pounds technical DDT, twenty-five gallons xylene, six gallons Acme white oil and one gallon Triton X-100. Dissolve the DDT in the xylene. Then add the Acme white oil, then the Triton X-100. For spraying, add four gallons of water to one gallon of this stock material. This spray costs about 45 cents per gallon.

To protect trees against infection, they must be sprayed much more heavily and thoroughly than is usually the case in controlling most insects. On large trees seventy to eighty feet tall put twenty-five to thirty gallons of the hydraulic formulation, five to six gallons of the mist-blower formulation.

Two spray applications are required: (1) When the leaves are full grown, usually between June 15 and June 30. (2) When midsummer or second growth occurs, usually between July 20 and August 5.

INCREASED FREIGHT RATES.

Information on increased freight rates is presented in a booklet prepared for shippers by the Union Pacific Railroad Co. It is a memorandum of increased rates and charges as published in tariff of increased rates and charges, No. X-162-A, and tariff of increased rates and charges, No. X-166-B. A feature of the booklet is a map of the United States showing the boundary lines of the various increased territories. Shippers desiring a copy of the booklet can obtain it free of charge by writing to the freight traffic department of the Union Pacific Railroad Co., Fifteenth and Dodge streets, Omaha, Neb.

A CITATION for horticultural achievement awarded by the Oregon Federation of Garden Clubs to the late Aaron Miller, nursery pioneer and founder of the Milton Nursery Co., Milton, Ore., was received by his sons, George and Bert, from the president of the federation at a recent show at Freewater, Ore.

LAST month Sidney N. Shurcliffe, Ipswich, Mass., was reelected president of the Boston Society of Landscape Architects. Other officers are Edward C. Whiting, Brookline, vice-president; Vincent N. Merrill, Watertown, secretary-treasurer, and Norman T. Newton, Cambridge, and Elizabeth G. Pattee, Providence, executive committee.

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Over 100,000 Choice Peach Trees offered at low money-saving prices. Place your order now for shipment when wanted. All stock can be shipped promptly on receipt of order. Liberally graded, true-to-name, best-quality nursery stock. Satisfaction guaranteed.

DORMANT BUD PEACH TREES	Per 10	Per 100	Per 1000
7/8 to 1-in., 6 to 7 ft.	\$4.00	\$37.50	\$325.00
1 1/16 to 7/8-in., 5 to 6 ft.	3.50	30.00	275.00
9/16 to 1 1/16-in., 4 to 5 ft.	3.00	25.00	212.50
7/16 to 9/16-in., 3 to 4 ft.	2.50	17.50	150.00
5/16 to 7/16-in., 2 to 3 ft.	1.50	12.50	110.00

Varieties:

Mayflower	Belle of Georgia	Red Indian	Giant Hale
Early Rose	Early Elberta	Frank	Hiley
Fair Beauty	Elberta	Golden Jubilee	Halehaven

JUNE BUD PEACH TREES—In Same Varieties

	Per 10	Per 100	Per 1000
3 to 4 ft.	\$2.50	\$17.50	\$150.00
2 to 3 ft.	1.50	12.50	110.00
18 to 24 ins.	1.25	11.00	90.00

PLUM TREES

We have a few thousand in the following varieties and sizes:

	Each	Per 10	Per 100
4 to 5 ft.	\$0.40	\$3.50	\$30.00
3 to 4 ft.	.35	3.00	25.00
2 to 3 ft.	.30	2.50	20.00

Abundance	Gold	Red June
Bruce	Methley	Wilson

APPLE TREES—Mostly One-year Whips

	Each	Per 10	Per 100
4 to 5 ft.	\$0.35	\$3.50	\$30.00
3 to 4 ft.	.30	2.75	25.00
2 to 3 ft.	.25	2.00	17.50

Yellow Transparent	Mammoth Black Twig	Red Delicious
Lodi	Stayman Winesap	Yellow Delicious
Jonathan	Twenty Ounce	King David

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Apple and Pear Seedlings—Our blocks of seedlings are on brand-new land. Free from aphids and other insect pests.

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One-yr., 9/16 to 1 1/16-in., \$75.00 per 100.

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PEONIES, 3 to 5-eye divisions, standard. Per 10 Per 100

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New Books and Bulletins

TAYLOR'S ENCYCLOPEDIA.

A dozen years ago "The Garden Dictionary," edited by Norman Taylor, was published by the Houghton Mifflin Co. in a library edition at \$16.25 and met so appreciative a reception that a trade edition was issued two years later at \$7.50. The volume was recommended in these pages at the time as an extraordinary buy for the vast amount of information included. The fact that a gold medal of the Massachusetts Horticultural Society was awarded the work, the second such medal given for a book, indicated the authoritative character of the work.

To meet the wide popular need for a book of this kind, that volume has been revised and expanded, now appearing under the title of "Taylor's Encyclopedia of Gardening," at \$5.

This is not a reprint of the first edition, but has been completely reset. The book is smaller in page dimensions, measuring approximately 6x9 inches. The 1,225 pages make a volume two inches thick. It is stated that over 1,000 additional entries appear in the new edition, and the earlier material has been completely revised and rechecked. The map of hardiness which appears front and back of the book is of much value for reference.

This book can be highly recommended for the amateur gardener. At the same time, it is valuable as a reference work for the professional or commercial horticulturist.

NURSERY PROPAGATION.

"Propagation of Trees, Shrubs and Conifers" by Wilfrid G. Sheat, horticulturist to the Ministry of Transport, London, England, who was formerly associated with the Royal Botanic Gardens, Kew, published recently by the Macmillan Co., New York, adds its share to the growing index of information on nursery propagation and is a concise source of data for those interested in learning English propagation methods.

Mr. Sheat has devoted his attention exclusively to successful commercial practices and arranges his data on each genus in sequence of practicality. The major portion of the 479-page book, which sells for \$7.50, discusses the propagation of ornamental deciduous trees and shrubs—the angiosperms. The second, and shorter section, is devoted

to the gymnosperms. Every genus generally met with has been included, and the propagation of the particular species and varieties within those genera has been described individually where necessary. The author has conformed to international rules of nomenclature, using as his guide Rehder's "Manual of Cultivated Trees and Shrubs." Common names are given as well, and easy reference is possible from use of the comprehensive index.

While the book is in no respect a primer, introductory paragraphs to each section discuss such topics as open ground and underglass sowing,

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Also 20,000 2 and 3-year-old Dk. Red Jonathan, Grimes, Dk. Red Delicious, Golden Delicious, Rome Beauty, York Imperial, Wealthy, Yellow Transparent, Turley, 7/16-in., 20c; 9/16-in., 25c; 11/16-in., 35c, each in 1000 lots.
10,000 1-yr. Peach, leading varieties, 5/16-in., 15c; 7/16-in., 25c; 9/16-in., 35c, each in 1000 lots.
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division, layering, French-mound layering, cuttings, grafting, etc. A general evaluation of these methods of propagation, in view of production costs, is included, but the plant's response to these methods of reproduction is the final determinant of which shall be used.

"CAMELLIAS ILLUSTRATED."

To further the interest in and enjoyment of camellias, a group of amateur camellia fanciers in the Pacific northwest have underwritten the publication of a handsome and useful book entitled "Camellias Illustrated"

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Leading varieties of
June Bud Peach and one-year Apple.
Per 1000
Under 1 foot.....\$ 40.00
12 to 18 inches..... 60.00
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Write for very low prices on large
Peach, Apple, Pear and Plum.
2-year, No. 1 Concord Grapes, \$75.00
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Red Cedars. (Beautiful trees, collected.)
6 to 10 inches.....\$20.00 per 1000
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ANNA STRAWBERRY NURSERY

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under the sponsorship of the Oregon Camellia Society. It was edited by Morrie L. Sharp, now president of the Oregon Camellia Society, and published by the Western Trail Publishing Co., at \$5 per copy.

Pictorially the book is handsome, being bound in gray cloth, with a picture of a camellia bloom mounted on the front cover, and it contains 267 illustrations, of which 156 picture camellia blooms, forty-nine of them in full color.

The text in this 160-page book presents the experiences of numerous growers and covers the history and use of camellias, their culture and care, flower arrangement, disease and pest control, propagation, lists of varieties and diverse other subjects of interest to those who grow and exhibit camellias. The text is concise and covers a considerable variety of topics.

FIRST BOOK ON THE FIG.

The work of Dr. Ira J. Condit on the fig is well known among the growers of that fruit in California, and probably elsewhere. Out of his own observations and investigations in this country and the fig-growing districts of foreign lands, Dr. Condit has set down a complete account of the common fig, the first such in English, it is said. The author notes that he has added material of other investigators and from the literature, so that this volume might be a complete reference work for horticulturists, botanists and growers. An examination of the 222 pages indicates that this is the case. Not only are the various phases of the fig's history and distribution covered, but detailed information is given on botanical aspects, breeding, propagation and culture. Diseases and insects are fully treated, as are marketing, chemistry and food value, crops, climatology and the like.

"The Fig," by Dr. Ira J. Condit, is published, at \$5, by the Chronica Botanica Co., Waltham, Mass., and Stechert-Hafner, Inc., New York. It is volume 19 in a new series of plant science books edited by Dr. Frans Verdoorn. Thoroughgoing bibliography adds to the high reference value of the book.

FAIRCHILD GARDEN.

Though it has been in existence only ten years, the Fairchild Tropical Garden, in southern Florida, has won widespread interest and recognition for what has been accomplished in a decade. The man who conceived the idea of the garden, Col. R. H. Montgomery, had been on the board of

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150,000 PEACH TREES

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Send us a list of your needs for Spring or Fall. We will quote you low wholesale prices on the following grades:

11/16-in. caliper, 5 to 6 ft. tall

9/16-in. caliper, 4 to 5 ft. tall

7/16-in. caliper, 3 to 4 ft. tall

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Buds taken from fruiting orchards. We offer the following varieties: Elberta, Golden Jubilee, Redhaven, Redelberta, Halehaven, Fertile Hale, J. H. Hale, Valiant, Vedette, Lemon Free, Salberta, Cumberland, Champion, Late Red, Oriole, Rochester, Belle of Georgia.

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Apple

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All above, 1 and 2-year.

Peach and Apricot, 1-yr.

Black Walnut, 3 to 4 and 4 to 5 ft.

Spirea Vanhouttei, 18 to 24 ins.,

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SMALL FRUIT PLANTS

Thirty varieties of Grapes including the

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Currants and Berry plants

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Cost less than Shade Trees and can be used for shade as well as fruit.

APPLE, PEACH, PLUM and PEAR, 6 to 7 ft., 3/4 to 1-in. caliper, \$9.00 per 10, \$85.00 per 100 in the following varieties:

APPLE	PEACH
Bonum	Belle of Georgia
Double Red	Elberta
Delicious	Golden Jubilee
Double Red	Halehaven
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Grimes Golden	Redhaven
Lowry	Shipper's Red
M. B. Twig	Sullivan's Early
Rome Beauty	Elberta
Stayman	
Winesap	PEAR—Kieffer
Yellow Delicious	
York Imperial	

PLUM—Burbank, Shropshire Damson, Wickson.

Also, we offer Peach, 7 to 8 ft., 1 to 1 1/2-in. caliper, \$12.50 per 10, \$110.00 per 100.

Submit list for quotations on other varieties and sizes of Fruit Trees, Berries and Ornamentals.

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GRAPE CUTTINGS

Caco Beta
Fredonia
C. D. WRIGHT
HAMBURG, IOWA

managers of the New York Botanical Garden and on the official committee of visitors to the Arnold Arboretum. He deplored that few records existed from the early years of those institutions to provide guidance in the establishment of the Florida project.

So Mrs. Lucita Hardie Wait, associate editor of the garden's bulletin, has put in book form a record that may be of help to later generations of arboretum builders, but is likewise of interest to garden-minded folks of the present whose bent is toward palms and other tropical plants. Though the data on the plants grown at the garden occupy less of the book than material on operations of the garden, it is highly interesting.

"Fairchild Tropical Garden, the First Ten Years," is a well done book of nearly 400 pages, plus sixteen pages of illustrations, published at \$3 by the Ronald Press Co.

LILY YEARBOOK.

Thirty main articles and half as many brief papers on the lily are contained in the Lily Yearbook of the North American Lily Society, recently sent to the more than 200 active members of the society. The culture of lilies in various states, individual experiences with specific varieties, information on new and old hybrids and scientific papers on their origin, chromosomes in lily breeding, use of growth-regulating substances, cold storage of bulbs, storage of seeds, black scale disease on lily bulbs and commercial lily production and distribution are some of the subjects covered in this book. It may be obtained for \$3 from the treasurer of the society, Dr. Philip Brierley, 6405 Queens Chapel road, Hyattsville, Md.

ABC OF ORCHID GROWING.

An answer to the question of the practicability of producing orchids in hobby greenhouses can be found in a new book called the "ABC of Orchid Growing," published by Ziff-Davis Publishing Co., Chicago. Its author, John V. Watkins, of the University of Florida, is known for his work in commercial ranges, but as the title suggests, his book is directed to amateurs. It outlines the essential cultural requirements of various species of orchids by which the amateur could obtain satisfactory results and deals with the necessary equipment.

The author draws heavily upon his knowledge of commercial production in presenting the subject to the amateur. He finds it necessary in the first chapter of the 133-page book to give a general outline of the genera, and

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We offer a good assortment of 2-year-old **FRUIT TREES**. Apple, Std. and Dwarf Pear, Sweet and Sour Cherry, Quince, Plum and Prune, including a good supply of nice **Stanley Prune**, one-year Peach.

We shall be pleased to receive your list of wants for low quotations on **HARDY, UPLAND-GROWN TREES**.

Carload lots a specialty.

Wholesale only.

ROBERTS NURSERY CO.
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Scions, Rooted Cuttings and 1 to 4-yr.-old plants.

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We will deliver any order of 10,000 or more plants direct to you. (Radius of 1,000 miles.)

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GRAPEVINES

3000 Golden Muscat, 1-yr., No. 1
500 Sheridan, 1-yr., No. 1
400 Seneca, 1-yr., No. 1

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Evergreens—Shrubs
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Price per 1000.
Concord, \$5.00; Niagara, \$5.50;
Delaware, \$6.00.
Wire-bound, 100 per bunch, expertly cut.
Packing free.

Place orders at once.
PAW PAW PLANT CO.
Paw Paw, Mich.

VICTORIA RHUBARB ROOTS

	Per 100	Per 1000
1 1/4 to 2-in.	\$7.50	\$50.00
1 to 1 1/4-in.	5.00	35.00
3/4 to 1-in.	3.50	25.50
1/2 to 3/4-in.	2.50	15.00
WASHINGTON ASPARAGUS		
3-yr., heavy	3.00	20.00
300 or more at 1000 rate.		

ASHCRAFT PLANT NURSERY, Copemish, Mich.

because the most popular group of orchids are epiphytic, he includes here a discussion of the fibers and peats used in potting them. The second chapter covers a wide range of subjects from potting to ventilation and describes the tasks from propagation to flowering plants. It is in this chapter that notes on Wardian cases are given.

The majority of the thirty-six photographs contained in the book are found in the last chapter, where illustrations of the orchids most suitable for amateurs are included, together with their specific cultural requirements. No individual species is recommended as the easiest to produce, although those that do well in certain sections of the country are noted. It is a book that might be recommended by nurserymen all over the country to gardeners who query them concerning orchids. The author recommends to the beginner the purchase of established seedlings of known parentage, bred in American ranges. He considers them a better investment than dormant plants advertised by foreign collectors.

CHEMISTRY AND INSECTS.

Although a basic knowledge of chemistry is essential to understand most discussions of new insecticides, those persons with a limited background in chemistry will find "Chemistry and Uses of Insecticides," by Dr. E. R. De Ong, consulting entomologist and agricultural technologist, helpful in developing a broader understanding of an increasingly complicated subject. Growers who are looking for a guide to the practical uses of new insecticides will not, however, find this book of immediate and direct benefit in solving their insect control problems. Such information can better be obtained from experiment station and university reports of research on the new materials.

Published by the Reinhold Publishing Corp., New York, this book contains 345 pages and is priced at \$6. The opening chapters are devoted to the inorganic compounds, such as arsenic, copper and sulphur. In a chapter called "Mineral and Other Oils," the present uses of petroleum as an insecticide are given, and vegetable and animal oils are also discussed. The comprehensive chapter on fumigants is followed by chapters on organic compounds where the uses of nicotine, pyrethrum, rotenone and chemical properties of derivatives from derris and related plants are included. Because of the many "unpronounceable"

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Chamaecyparis laws. ellwoodii,	
4 to 6 ins., \$110.00 per 1000....	\$12.00
Juniperus chin. pfitzeriana glauca	
herzi	15.00
Juniperus comm. fastigiata.....	12.00
Thuja occ. woodwardi.....	12.00

ROOTED CUTTINGS

	Per 100
Juniperus comm. fastigiata,	
average, 5 to 8 ins.....	\$ 8.00
Thuja occ. aureo-variegata.....	8.00
Thuja occ. pyramidalis, average	
4 to 6 ins.....	8.00
Thuja occ. pyramidalis, average	
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names, such as dichloro-diphenyl-trichloroethane (DDT), the chapter on synthetic organic compounds will be difficult for the layman to understand. The effects of heat, cold and radiation as insecticides are discussed in the final chapter, which is followed by a dictionary of insecticides, glossary, list of legal manufacture and sale requirements, conversion tables and official antidotes.

STARTING A BUSINESS.

An intensive and up-to-date list of published sources of information on establishing and operating a small business is contained in the second edition, revised, of "Information Sources for Small Businesses" (Ohio Small Business Handbook B-3), published by the bureau of business research of the college of commerce and administration at Ohio State University, Columbus, O. It sells for 50 cents.

This 94-page booklet lists reference books and pamphlets on beginning a small business, such as hiring employees, planning a record-keeping system, determining a location, etc., and on the general operation of a small business, such as accounting, management, selling policies, advertising, etc. The last division of the booklet gives reference sources for various types of enterprises, including the florists' and nurserymen's trade.

CONNECTICUT PUBLICATION.

The first issue of a new semiannual popular journal entitled "Frontiers of Plant Science" has been announced by Dr. James G. Horsfall, director of the Connecticut agricultural experiment station. This 8-page journal, intended primarily to acquaint gardeners and farmers of Connecticut with the latest research developments at the experiment station, consists of a series of short articles by staff members, each illustrated. The publication will be issued each spring and fall and will be edited by Miss Amanda Quackenbush, experiment station editor.

The first issue contains articles on the effect of new weed-killing methods on soil structure, new tools for lawn insect control, a new apple pest found in Connecticut and methods for its control, as well as a column by the station's director.

BULLETINS RECEIVED.

"Evergreens," a bulletin of the agricultural extension service of the University of Minnesota, by L. C.

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"Over Half a Century" - Since 1890
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Snyder, C. M. Christensen, R. J. Wood and A. C. Hodson, discusses and illustrates the major groups of evergreens and their uses and gives instructions for planting care. Following a section on the health of evergreens are tables giving the description, cause, treatment and other remarks on injuries to evergreens caused by diseases, insects and other agents.

Bulletin P91 of the agricultural experiment station, Iowa State College, Ames, entitled "Oak Wilt, a Serious Disease in Iowa," by S. M. Dietz and R. A. Young, discusses the symptoms, causes, control, host range and economic importance of this disease, as well as giving information on other common oak diseases and injuries.

The soil properties of Connecticut's forested areas, which make up about sixty per cent of the state's land area, are discussed by Herbert A. Lunt in a generously illustrated bulletin, number 523 of the Connecticut agricultural experiment station, New Haven, entitled "The Forest Soils of Connecticut."

CENTRAL CALIFORNIA CHRISTMAS PARTY.

Nearly 200 nurserymen and their wives attended the annual Christmas party of the Central California Nurserymen's Association December 10 at Rickey's restaurant, at Palo Alto. Gordon Wallace, Leonard Coates Nurseries, Inc., and his party committee provided the finishing touches to the evening.

The entertainment was all home-grown and as a result was spontaneous and was presented with a sincere desire that everyone take part in it. It started with the singing of Christmas carols in which everyone joined. Jack McDonnell, McDonnell Nursery, Oakland, presented to the immediate past-president of the group, Frank James, E. James Nursery, Oakland, a leather golf bag in recognition of the fine work that he did for the organization while he held its highest office. Mr. James' remarks in accepting the gift indicated how pleased and surprised he was.

Then the "Supreme Court" took over. The "justices" included Clyde Stocking "chief justice," San Jose; Frank James, Gordon Wallace, Jack McDonnell, Louis Lagomarsino, F. Lagomarsino & Sons, Sacramento; Walter B. Balch, Shell Chemical Corp., San Francisco, and E. L. Esch, Esch Nursery, San Jose, as "associate justices." The court called to the stand various members of the asso-

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ciation who in the past year had com-
mitted offenses such as having grand-
children, taking over the duties of the
preceding officers and offering to
other members of the association new
varieties of better kinds of plant ma-
terials. For these they were duly
prosecuted by various selected at-
torneys and when convicted were
fined by the court in varying amounts
up to 22 cents. Even the convicted
enjoyed the proceedings.

The evening ended with the distri-
bution of the gifts which each had
brought and which were passed out
by the gift committee. No gift having
a value of over 25 cents was accept-
able, but everyone seemed to receive
something that was appropriate as
well as clever.

Special guests at the meeting were
Louis Lagomarsino and Charles Arm-
strong, both of Sacramento.

At the next meeting, which will
be January 13, the first reports will
be made by the committees ap-
pointed for the convention of the
American Association of Nurserymen
to be held at San Francisco in July.
W. B. B.

INLAND EMPIRE MEETING.

Joe Cuneo, First California Co.,
held an optimistic view of future
business conditions when he ad-
dressed the meeting of the Inland
Empire chapter of the California As-
sociation of Nurserymen December
7 at West Riverside.

W. A. Gilliland, Gilliland Gardens,
Upland, chapter president, presided.
Attending the meeting from the Po-
mona valley area were Charles
Samms, Bee-Line Nursery, San
Dimas; Linn Honaker, R. M. Teague
Nurseries, San Dimas; John H. Ma-
son, Mason's Nursery, Pomona; Mr.
and Mrs. Glenn E. Stires, Aloha
Nursery, Pomona; Mr. and Mrs.
Everett Greer, Pomona Nursery, Po-
mona, and Charles Klein and Charles
Vogel, Chuck's Nursery, Covina.

COUNTY AGRICULTURAL COMMISSIONERS MEET.

The winter meeting of the Cali-
fornia Association of County Agricul-
tural Commissioners was held Decem-
ber 8 and 9 at the Sacramento county
courthouse, Sacramento, with nearly
all of the commissioners in the state
present.

Most of the speakers on the pro-
gram were members of the faculty of
the University of California, the state
department of agriculture or the
United States Department of Agricul-
ture. In most cases they presented re-
sults of research work in which they

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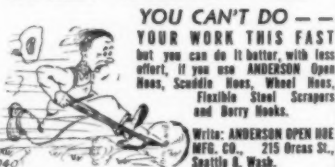
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are engaged. Two speakers from industry also were on the program, and they limited their talks to the problems facing the agricultural chemicals industries and the methods being used to solve these problems.

Nearly every speaker referred to the confusion in the minds of users of new chemicals for agricultural pest control, as to whether or not the materials, assuming they are effective as pest eradicators, will be more harmful to the plants than to the pests they control and what will be their effect on the applier, on the soil and on other pests than those they are intended to control. Also more information is wanted in the results obtainable with these materials under various climatic or weather conditions.

As has been the case at the past several meetings, most of the talks were concerned with chemicals to be used for insect control. However, some time was devoted to weed eradicants, and one talk was on new chemicals for disease control. In this talk Dr. D. M. Coe gave an outline to serve as a guide to the types of fungicidal compounds now appearing and their uses and limitations, as far as it is now possible to make such statements about them.

The group's next meeting will be held in May. W. B. B.

H. A. HYDE CO. will celebrate its forty-third anniversary in a new building at the intersection of Main street, Eastern drive and Southern circle, Hyde Park, Watsonville, Calif.

NOTICE appeared in the November 12 edition of the Inter City Express, a newspaper at Oakland, Calif., that J. R. Crombie, Ceres, Calif., is the intended seller of a retail rose plant business known as Crombie Roses, located at 8751 MacArthur boulevard, Oakland 5, to L. P. Gollie, 3492 Thirty-eighth avenue, Oakland 19.

RECENTLY appointed assistant plant pathologist at Oregon State College, Dr. Roy A. Young will spend the greater part of his time investigating diseases of nursery stock, particularly the prevailing root rot on Mazzard cherry seedlings. Dr. Young did his undergraduate work at New Mexico State College and his advanced work at Iowa State College. He has devoted considerable time to investigating midwest tree diseases, having written his thesis on oak wilt. At Oregon he will be associated with Dr. J. A. Milbrath.

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9. Rules for Plant Identification
10. Selection of Plants for Landscape Use
11. Foundation and Border Plants
12. Foundation Planting Problems
13. Vegetable Gardening
14. The Rose—Rose Culture
15. Propagation of Plants by Cuttings
16. How to Make Drawings that Secure Jobs
17. How to Grade, Drain and Shape the Grounds
18. Lawns—Installation—Maintenance
19. Walks, Roads and Pavements
20. Use of Garden Features and How to Build Them
21. Flower Borders and Rock Gardens
22. Garden Pools—Geometric—Informal
23. Fertilizers—Soil Preparation
24. The Formal Garden
25. The Formal Garden Plan
26. Pruning—How and When to Do It
27. Transplanting Operations
28. Landscape Maintenance
29. Public Grounds—Design
30. Surveying—Scale—Orientation
31. Surveying—Plane Table Method
32. Surveying—Transverse Method
33. Surveying—Mathematics—Tables
34. Tree Surgery
35. Budding and Grafting
36. Sprinkler Systems
37. How to Conduct Your Business
38. Economics of Garden Planning
39. Beauty—What It Is
40. Elements of a Successful Garden
41. Texture of Plants and Materials
42. Design and Planting Analysis Problem 1
43. Design and Planting Analysis Problem 2
44. Design and Planting Analysis Problem 3
45. Design and Planting Analysis Problem 4
46. Design and Planting Analysis Problem 5
47. Design and Planting Analysis Problem 6
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50. Final Problem—Landscape Design

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Kalamazoo 98, Mich.

Again we have to offer a fine selection of Cannas and advise ordering early.

	Per 100
Yellow King Humbert	.....\$4.00
President	.....4.00
Red King Humbert	.....4.00
City of Portland	.....4.00
King Midas	.....4.00
Mme. Crozy	.....4.00
Wyoming	.....4.00
Ruth Wallace	.....4.00
Eureka, white	.....6.00

MONARCH PLANT FARMS
Kalamazoo 98, Mich.

BELGIAN IMPORTED DOUBLE BEGONIAS.

All-double, camellia-flowered; colors as follows: red, yellow, pink, salmon, orange, copper, scarlet, rose.

Sizes:	Per 100
1 1/4 to 1 1/2-inch	.....\$ 6.00
1 1/2 to 2-inch	.....10.00
2 to 3-inch	.....15.00

Cash or C.O.D.
MONARCH PLANT FARMS
Kalamazoo 98, Mich.

WRITE FOR GLADIOLUS BULB LIST NOW

Our fall list is now ready for mailing. It covers 24 of the better florists' varieties. Best crop we have ever harvested of good, clean, high-crowned bulbs. Each and every order is inspected by a certified state inspector before leaving our warehouse—this is your protection. Write for list.

QUALITY GLADIOLUS GARDENS

Chester Sirols — Don B. Creager

Route 2 St. Anne, Ill.

HARDY LILY BULBS.

(From U. S.-occupied Japan.)
Lilium rubrum, 7 to 9-in. up to 11 to 13-in.
Lilium auratum, 7 to 9-in. up to 11 to 13-in.
Lilium aur. phyllidium, 8 to 9-in. up to 11 to 13-in.

Write for new low prices—specifying quantities. January delivery and later.

BERKERY, Inc.

62 Reade St. New York 7, N. Y.

ONE MILLION SAND-GROWN GLADIOLI.

Have never seen a finer lot of choice bulbs. Send for list.

MONARCH PLANT FARMS

Kalamazoo 98, Mich.

PRIZE-WINNING TUBEROUS BEGONIA BULBS from Antonelli's, of Santa Cruz, Calif. See HELEN YEARSLEY at the Ohio, Illinois and Michigan meetings for prices and slides, or write the company direct.

LILIES.	Per 100
Regal, 6 to 6 ins.	.....\$ 6.50
Regal, 6 to 7 ins.	.....8.00
Regal, 7 to 8 ins.	.....12.00
Regal, 8 to 10 ins.	.....15.00
Rubrum, 4 to 6 ins.	.....12.50

Cash or C.O.D.
MONARCH PLANT FARMS
Kalamazoo 98, Mich.

LILY BULBS.

Hardy northern-grown Lily bulbs. New, rare, scarce and unusual as well as standard varieties. New wholesale list now ready. Send for your free copy.

J. HENDRIKS, Grower

Box 27 Portage, Mich.

HOLLAND-GROWN BULBS.

HYACINTHS, 16 to 17 cm., \$12.00 per 100. Gertrude (pink), Blumarch (blue).
CRUCIF. \$1 to 2 cm., \$2.00 per 100. Yellow, blue and striped.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

DAHLIA ROOTS—Write today for wholesale price list N on varieties that stand hot, dry weather best. PAYNE DAHLIA FARM, Route 5, Kansas City 3, Kansas.

CAMELLIAS

NEW AND RARE CAMELLIAS.

Shipped in Gallon Containers.

WE PAY THE EXPRESS.

Safe Delivery and Satisfaction Guaranteed.

**We will pay the express on orders for 12 or more plants when ordered at one time, in multiples of 4 plants, the number our shipping cases were designed to accommodate. Probably never again such values for so LOW A DELIVERED PRICE. Some of the plants of the varieties marked (*) are budded and will be shipped on first orders while they last.

GROUP "A." \$2.75 each, delivered**

18 to 20 inches.

*Col. Firey, red

*Otone, var.

*Admiral, var.

GROUP "B." \$3.75, each, delivered**

18 to 30 inches.

Purple Emperor, red

Casablanca, pink

Finlandia, white

Finlandia, var.

Finlandia, new red

Salmon Queen, pink

Firebrand, red

Marian Mitchell, red

Eleanor Hagood, pink

Mme. Simons, white

Perfection Red, red

GROUP "C." \$4.75 each, delivered**

24 to 36 inches

Paul Howard, white

*Casablanca, pink

*Purple Emperor, red

*King Lear, var.

Alba Plena, white

Fimbriata, white

Finlandia, white

Sep. Morn, new

white

SPECIAL NEW CAMELLIA HIGH HAT.

(Flesh-pink Dalkagura)

The most important camellia introduction in a decade. The red and variegated Dalkagura have been among the earliest and most profitable, with blooming season from early October through February—and now a Dalkagura of a lighter shade than Pink Perfection, for foliage, lasting quality of blossoms.

on or off the plant for dependability for holiday season bloom. The Dalkaguras are the leaders.

15 to 18 ins. 1-yr. grafts 2-yr. grafts

15 to 24 ins. \$5.00 \$5.00

24 to 30 ins. 7.50 7.50

24 to 30 ins. 7.50 8.50

Some varieties shown are in very short supply; order early for best selection and name some second choices, if convenient, in case we are sold out of something that was in your order.

Wholesale Growers and Shippers of Camellias Exclusively.

For 15 Years the Best from the Far West.

TORMEY'S, TEMPLE CITY, CALIF.

DECORATIVES

FANCY-LEAVED CALADIUMS.

Best mixture, 2 1/4 to 3 1/4-inch.....\$16.00

Cash or C.O.D.

MONARCH PLANT FARMS

Kalamazoo 98, Mich.

EVERGREENS

All plants are extra-heavy and ready for the field.

Taxus media hicksi, 2-yr. T., 6 to 8 ins. \$20.00

3-yr. T.T., 10 to 15 ins. 35.00

Taxus cuspidata, 2-yr. T., 6 to 8 ins. 25.00

3-yr. T.T., 10 to 12 ins. 40.00

Taxus cusp. capitata, 2-yr. T., 6 to 8 ins. 30.00

3-yr. T.T., 10 to 12 ins. 50.00

Taxus cusp. browni, 2-yr. T., 6 to 8 ins. 25.00

Viburnum rhytidophyllum, 2-yr. T., 10 to 15 ins. 30.00

Ilex crenata convexa, 2 1/2-in. pots. 20.00

2-yr., 6 to 8 ins. 20.00

STROHL'S NURSERY

1404 N. Anthony Blvd. Fort Wayne, Ind.

EVERGREENS.

150,000 Junipers, 3 to 6 ins., potted, own root. Upright types: *Scopulorum moffetti*, *Pathfinder*, *Blue Heaven*, *Welch*, *Dew Drop*; *virg. burki*, *keteleeri*, *De Forest Green*, 40c ea.; 300 up, 35c ea.; 3000 up, 30c ea. Spreading types: *Pfitzer*, *Golden Pfitzer*, *Compact Pfitzer*, *sabina*, *Vonehron*, *Tamli*, *kosteri*, *Andorra*, *hetzi*, *creepers admirabilis*, 20c ea.; 300 up, 15c ea.; 3000 up, 10c ea. Field-grown, bare root: *Virg. burki*, *keteleeri*; *scopulorum*, *Blue Heaven*, *moffetti*, *Pathfinder*, 8 to 12 ins., 60c ea.; 12 to 15 ins., 85c ea.; 15 to 18 ins., \$1.25 ea. *Pfitzer*, *G. Pfitzer*, *hetzi*, 8 to 15 ins., 40c ea.; 12 to 15 ins., 60c ea.; 15 to 18 ins., \$1.00 ea. B&B: *Moffetti* and *Pathfinder*, 4, 5, 6, 7 ft., \$1.50 per ft. 5 per cent discount for cash with order, or 25 per cent and balance net C.O.D. Established credit, 2 per cent, 10 days.

DAVIDSON
NURSERY & GREENHOUSE, Inc.
Hastings, Neb.

LINING-OUT STOCK.

EVERGREENS, potted.
Taxus capitata (from cuttings) 2 1/2-in. Pot size Per 100 25.00
Taxus cuspidata 2 1/2-in. 22.50
Taxus hickmanii 2 1/2-in. 25.00
Thuja pyramidalis 2 1/2-in. 20.00
Thuja pyramidalis, Imp. 2 1/2-in. 20.00
Thuja woodwardii 2 1/2-in. 17.50

HERBES.

Beauty Bush (*Kolkwitzia*) 2-in. Pot size Per 100 10.00
Deutzia gracilis 2-in. 10.00
Euonymus carrierei 2 1/2-in. 12.50
Euonymus radicans erecta 2 1/2-in. 12.50
Euonymus vegetus 2 1/2-in. 17.50
Forysthia Spring Glory 2 1/2-in. 15.00
Philadelphus aurea 2 1/2-in. 15.00
2 per cent discount for cash with order, packing without cost.

THE HOLLANDIA GARDENS
South Vienna, Ohio

LINING-OUT STOCK.

Priced per 100.
4 to 6 ins. 6 to 8 ins. 8 to 12 ins.
Buxus harlandi \$8.00 10.00
Buxus japonica 8.00 10.00
Feliox sellowiana 8.00 10.00
(Pineapple Guava)
Gardenia fortunei 6.00 7.50 10.00
Gardenia mystery 6.00 7.50 10.00
Gardenia radicans 6.00 7.50 10.00
Gardenia weitchii, rooted cuttings 5.00
Ilex crenata bullata convexa 8.00 10.00 12.50
Ilex crenata rotundifolia 8.00 10.00 12.50
Photinia glabra 8.00 10.00
Write for our new illustrated catalog.

BLACKWELL NURSERIES
Semmes, Ala.
Wholesale Only.

EVERGREEN LINING-OUT STOCK

Field-grown
TRANSPLANTS
Per 100 Per 1000
Colo. Blue Spruce, 4 to 8 ins., X \$ 8.00 \$75.00
White Spruce, 4 to 8 ins., X 8.00 75.00
Mugho Pine, 3 to 5 ins., X 4.00 35.00
Can. Hemlock, 4 to 8 ins., X 7.50 60.00
American Arborvitae, 10 to 20 ins., XX 20.00
SEEDLINGS
American Red Pine, 4 to 8 ins. 5.00 40.00
American Red Pine, 3 to 4 ins. 3.00 30.00
Scotch Pine, 3 to 5 ins. 3.00 25.00
Scotch Pine, 2 to 3 ins. 2.00 18.00
Mugho Pine, 3 to 6 ins. 3.00 25.00
Norway Spruce, 2 to 5 ins. 3.50 30.00

SUNCREST EVERGREEN NURSERIES
P. O. Box #43 Johnston, Pa.

QUALITY LINERS.

Per 100
Red-flg. Dogwood, 10 to 15 ins., grafts. \$65.00
Red-flg. Dogwood, 15 to 24 ins., grafts. 95.00
Jun. pfitz. hetzi, (Blue), 4 to 6 ins., tr. 25.00
Azalea schlippenbachii, 4 to 8 ins., tr. 25.00
Pieris japonica, 4 to 8 ins., tr. 22.50
Sarcococca hookeriana, 2 1/2-in. pots. 25.00
Jun. pfitzeriana, 4 to 6 ins., tr. 22.50
Canada Hemlock, 4 to 8 ins., tr. 12.50
American Holly, 3 to 5 ins., sdg. 6.50
Nandina domestica, 5 to 10 ins., tr. 22.50
Azalea Hindogestri, 3 to 5 ins., tr. 25.00
Taxus capitata, 4 to 6 ins., tr. 22.50
Taxus cusp. nana (brev.), 4 to 6 ins., tr. 20.00
Send for new spring list.

POSSUM HOLLOW NURSERIES
6327 Magnolia St. Philadelphia 44, Pa.

PICEA PUNGENS GLAUCA.
20,000 XXX, 8 years from seeds. F.O.B. nursery. B&B or C.S. pots. Incl. packing.
Selected Blue Spruce. Red Run Lots of Lots of Lots of Lots of
Sizes 10 100 1000 10000
12 to 15 ins. \$12.50 \$110.00 \$7.50 \$69.00
15 to 18 ins. 15.00 135.00 10.00 90.00
18 to 24 ins. 20.00 180.00 15.00 125.00
Cash with order or before shipment. Bare roots packed in wet moss, deduct 20c per tree. Discount 10 per cent for lots of 1000.
H. W. WEBER
Summer St. Weston 93, Mass.

TREE BOX for hedging, 12 to 18 ins., bare root, 35c each. 50 minimum shipment. 500 or more, 10 per cent discount. Cash with order, packing free.

R. P. RESEL
Mulino, Oregon

SEEDLINGS FOR SPRING.

Per 1000
Scotch Pine, 2-yr., 3 to 5 ins. \$30.00
Austrian Pine, 2-yr., 3 to 5 ins. 30.00
Norway Spruce, 3-yr., 3 to 12 ins. 35.00
Red Pine, 2-yr., 2 to 5 ins. 30.00
Colo. Blue Spruce, 3-yr., 2 to 6 ins. 35.00
Douglas Fir, 3-yr., 3 to 8 ins. 40.00
Cash, or 25 per cent deposit with order, balance C.O.D.
SAM DIBLE NURSERY
Sheloceta, Pa.

GRAFTS.

Juniperus canaerit, *berki*, *glauca* and *pyramidalis* (Dundee). Others grafted at your request. Juniper grafts on virginiana understock for spring delivery, \$40.00 per 100; \$350.00 per 1000. 250 takes 1000 rate. Terms: Cash with order and free packing, or 25 per cent deposit with order, packing at cost, balance C.O.D.

ARROW WOOD NURSERY
Box 166 Warsaw, Ky.

RHODODENDRON UNDERSTOCKS.

Firm ball, stocky plants, thrice trans. 4 to 6 ins. \$25.00 per 100. 6 to 8 ins. \$35.00 per 100.

Minimum shipment, 50 plants. Less than 50, 10 per cent plus. Cash with order, packing free.

RICHARD P. RESEL
Mulino, Ore.

800 Spiney Greek Juniper, 3-yr., 8 to 10 ins., B&B, extra-heavy, \$75.00 per 100.
400 American Arborvitae, 2-yr., 10 to 12 ins., bare root, extra-heavy, \$35.00 per 100.
2000 *Buxus sempervirens*, \$25.00 per 1000.
Other 3-yr. plants, heavy, \$75.00 per 1000.

CHALIN LEWIS NURSERY
Box 83 Figgott, Ark.

20,000 *Taxus cuspidata* upright, 2-yr. sdgs., 4 to 6 ins., and 2500 *Viburnum dilatatum*, 2-yr., 7 to 12 ins., field rows, \$12.00 per 100 and \$95.00 per 1000. Samples on request. Send for our L. O. list.

BOULEVARD NURSERIES
Dept. B Newport, R. I.

HEATHER—Mediterranean hybrid, trspis., \$7.50 per 100, twice trspis., bushy, 4 to 6 ins., \$25.00 per 100. 50 minimum shipment. 500 or more, 10 per cent discount. Cash with order, packing free.

R. P. RESEL
Mulino, Oregon

PFITZER JUNIPER.

Large landscape-size plants. Compact and symmetrical. Every one a specimen. 3 1/2 to 4-foot spread: \$55.00 per 100, \$500.00 per 1000.

THE WILLIS NURSERY CO.
Ottawa, Kan.

CHINESE ARBOVITAE SEEDLINGS.

Grafters, 1/3 to 3/8-in. cal., 7c each.
1-yr. sdgs., 5 to 10 ins., \$50.00 per 1000.
2-yr. sdgs., hedge size, 18 to 24 ins., 10c each.
LUKE NURSERY, Pauls Valley, Okla.

UNROOTED Pfitzer Juniper Cuttings, 8 to 10 ins. long, not trimmed: \$10.00 per 1000, via express.

KRONE'S FLOWER SHOP
4221 Grand Ave. Fort Smith, Ark.

BED-GROWN CEDAR SEEDLINGS, 6 to 8 ins., \$35.00 per 1000. Cash, please.

EPH KLEIN
210 E. Olive, Rte. 1 Enid, Okla.

DAPHNE ODORA and CAMELLIAS.
Best varieties.

ROY WILKINS NURSERY
Newberg, Ore.

FRUIT TREES

DOUBLE-FLOWERING PEACHES.
Red, white and pink.

Each Each
per 10 per 100
12 to 18 ins. \$0.12 1/2 \$0.10
18 to 24 ins.1512 1/2
2 to 3 ft.2017 1/2
3 to 4 ft.2520
4 to 5 ft.3530
50 or more trees at 100 rate.

Field-grown Evergreen liners.
Greek and Irish Junipers.
1-yr. liners, 10c row run.
2-yr. liners, 15c row run.

Packing free for cash with order.

NAUGHER NURSERY
Chase, Ala.

PEARS. Per 10 Per 100
Kieffer, 9/16 to 11/16-in. \$6.00 \$50.00
Kieffer, 7/16 to 9/16-in. 4.50 35.00
Bartlett, 9/16 to 11/16-in. 6.00 50.00
Bartlett, 7/16 to 9/16-in. 4.50 35.00
Clapp Favorite, 11/16 to 7/8-in. 8.00 70.00

DRAKE'S NURSERIES
4342 Branch Rd. Flint 6, Mich.

Grafted and budded paperhull pecan trees, peach, apple, plum, fig and famous blight-proof pineapple pear trees, and Concord and Niagara grapes. Write for free new catalog.

BASS PECAN CO.
The World's Largest Pecan Nursery.
Lumberton, Miss.

We are going to have a surplus in pear, peach, plum, apricot, apple and persimmon trees and will have a few pecan trees. If interested in any of the above, we will be glad to furnish prices. Thank you.

FITZGERALD NURSERY
Stephenville, Tex.

CHERRIES.

Good height, well branched.
Montmorency, Early Richmond, English Morello.

Size Each Each Each
7/16-in. \$0.50 \$0.55 \$0.50
9/16-in.706560
11/16-in.807570

BENTON COUNTY NURSERY CO.
Rogers, Ark.

We have 50,000 1-yr. Peach Trees, 70,000 June Buds and a complete line of Fruit Trees and Shrubbery. Write for our prices before you buy.

JOPPA NURSERY CO.
Jopla, Ala.

KIEFFER PEAR—2-yr., 11/16-in., \$7.50 per 10, \$70.00 per 100; 9/16-in., \$6.50 per 10, \$60.00 per 100; 7/16-in., \$5.00 per 10, \$45.00 per 100.

WAYNESBORO NURSERIES
Waynesboro, Virginia

GROUND COVERS

VARIEGATED IVY.

A colorful combination of glossy green and ivory-white leaves, comparable in size to English ivy. Fast-growing and decorative. Sturdy, well rooted cuttings from select, clean stock, \$5.00 per 100, \$45.00 per 1000.

ADAMS WHOLESALE NURSERY
2245 Broadway St. Temple City, Calif.

PACHYSTANDRA TERMINALIS — Heavy rooted cuttings, \$6.00 per 100, \$50.00 per 1000.

EAST HILL NURSERIES
Chesterland, Ohio

HARDY PLANTS

LIRIOPE.

But few plants will grow equally well in sun or shade, hot or cold, wet or dry. Liriope measures up to this. We have a nice stock of this great border plant to offer at the following attractive price. Nice field divisions ready now.

Liriope muscari exiliflora, \$5.00 per 100.
RIEDEL PLANT CO.
Experiment, Ga.

BLEEDING HEARTS.

Per 100
Dicentra spectabilis, 3 to 5 ins. \$30.00
Dicentra spectabilis, 5 to 8 ins.
and up 40.00
Dicentra eximia, 3 to 5 ins. 15.00
Dicentra eximia, 5 to 8 ins. and up. 30.00

J. HENDRIKS, Grower
Box 27 Portage, Mich

TWO HARDY PERENNIALS.

Per 100
Iris kaempferi, mixed colors. \$15.00
Hemerocallis kwanso flore-plena 12.00
Blooming-size plants, J. B. certified. Free packing. Cash with order.

BROOKFIELD GARDENS
Route 6 Delaware, N. J.

PERENNIALS.

New and Standard Kinds.
A most modern and complete selection.
New Wholesale List now ready.
Send for your Free Copy Now.

CARROLL GARDENS
Box 15 Westminster, Md.

HARDY ASTERS — Field-grown divisions for spring delivery. Fresh dug when weather permits. Harrington's Pink and Violetta, purple, \$10.00 per 100. Cash, please.

PAYNE DAHLIA FARM
Route 5 Kansas City 3, Kansas

FAMOUS CUSHION MUMS—Strong field clumps. Red, yellow, white, pink, bronze. 0.00 per 100. Assorted colors, \$25.00 per 100. Minimum order, \$5.00.

WONDERLAND NURSERIES
Ellersson, Va.

See September 1 issue of the American Nurseryman for list of Hardy Plants.

RICHARDS GARDENS

Plainwell, Mich.

Surplus Stock
can be easily and quickly turned into Cash
Listing it in the
American Nurseryman Classified Ads.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS.

Per 1000

Andorra Juniper (Jun. comm. dep. plumosa) \$15.00

Pfitzer Juniper (Jun. pfitzeriana chinensis) 20.00

Koster Juniper (Jun. kosteri) 25.00

Pyramidal Arborvitae (Thuja pyramidalis douglasii) 20.00

Savin Juniper (sabina or Vonehron) 20.00

Lombardy Poplar 3.00

Privet, Amur River North 2.75

Willow, Niobe Golden Weeping 3.00

Willow, Wisconsin Weeping 3.00

Willow, Pussy, large French (pink-tinted) 5.00

All above from our own cutting blocks. True-to-name. Evergreens are trimmed cuttings, 8 ins. and over. All other cuttings, 7 ins. Every cutting is hand cut. Packed free; cash with order, please.

BOB NEPRASH NURSERY
Route 2 Cedar Rapids, Iowa

HARDWOOD CUTTINGS—Continued

HARDWOOD CUTTINGS.
from Hardy Northern-grown Shrubs and Trees

From our own plantings and blocks checked yearly for accuracy. Cut 7 inches. Per 1000

Aronia melanocarpa	4.00
Cydonia japonica	6.00
Cornus paniculata	4.00
sibirica	4.00
lutea (yellow bark)	6.00
amomum	4.00
Foraythia intermedia	3.00
spectabilis	3.00
Elder, Golden	6.00
Cutleaf	4.00
red-berried	5.00
canadensis	3.00
Hydrangea P.O.	5.00
Hydrangea A.G.	6.00
Privet, Amur	3.00
Regel (true)	3.00
Ibota	3.00
Honeysuckle, Morrow	3.00
bella alba	3.00
bella rosea	3.00
tat. rosea	4.00
korolkowii	4.00
sabell	5.00
syringantha	5.00
maackii	4.00
Diervilla trifida	4.00
Philadelphus grandiflorus	3.00
Mt. Blanc	3.00
Bouquet Blanc	3.00
coronarius	3.00
lemoncel	5.00
Physocarpus opul. aureus	3.00
Physocarpus opul. nanus	3.00
Sorbaria sorbifolia	3.00
Spiraea billardi	3.00
froebeli	3.00
thunbergii	3.00
vanhouttei	3.00
trichocarpa	5.00
Snowberry, white	5.00
Lilac, rothomagensis	5.00
Viburnum dentatum	4.00
Poplar, Lombardy	3.00
Willow, Nobe	3.00
Wilsonian	3.00
Golden	3.00
Pussy	3.00
Rosa rugosa Belle Poltevine	7.00
Rosa rugosa Hana	7.00
Thuja pyramidalis	25.00
globosa	25.00
wareana	25.00

Packed free. Cash with order, please. Delivery in good order guaranteed.

THE SCOTCH GROVE NURSERY

Scotch Grove, Iowa

ROSEBUSHES

ROSES—2-yr., No. 1, field-grown; \$4.50 per 10, \$40.00 per 100 in the following varieties:

Ami Quinard	Margaret McGredy
Etoile de Hollande	Mrs. Chas. Bell
Golden Dawn	Mrs. P. S. Du Pont
Joanna Hill	Pres. Herbert Hoover
K. A. Viktor	Sunburst
Luxembourg	Talisman

CLIMBERS: American Beauty, American Pillar, Dr. Van Fleet, Silver Moon, Talisman Climber.

POLYANTHUS: Edith Cavell, Golden Salmon, Ideal, Katherine Zelmert, Orleans.

WAYNESBORO NURSERIES

Waynesboro, Virginia

ROSEBUSHES.

Clean cultivation, regular dusting, proper fertilizing and moss-packed paper-lined bales assure you of plants with vigor. Good assortment. No. 1 grade, \$22.00 per 100; No. 1½ grade, \$16.00 per 100; No. 2 grade, \$11.00 per 100. These should be excellent for potting as they are budded on fibrous-rooted creeper multiflora understock.

P. O. TATE NURSERY Tyler, Texas

ROSEBUSHES—Most complete list offered in East Texas. 2-year plants, grown right, graded right, packed right. Prices consistent with quality of stock and service rendered. Wholesale list just off the press. Ask for your copy now before stock is broken.

ROSEMONT NURSERIES

D. L. Thompson, Manager

Box 839 Tyler, Texas

TWO-YEAR, BUDDED ROSEBUSHES.
Quality, Price, Service. Ask anyone we serve. See our display ad in the Nov. 1 issue.

Write for new wholesale list.
ROSE LAWN NURSERIES
P. O. Box 295 Winnboro, Texas

OHIO HYBRID TEA ROSES
2 yrs. old.
Polyanthus, Triomphe Orleansais and Edith Cavell.

Write for prices.
ALEX TOTH Madison, Ohio

OREGON ROSES, 2-year, field-grown on multiflora, in all the most popular standard sellers. Now booking orders for winter and spring shipment. Also, dormant buds on manetti. Send for list.
MT. HOOD NURSERY Gresham, Ore.

Forms for classified ads close Monday—two weeks before date of issue. Don't miss an issue by sending copy late!

SEEDS

SEEDS.

Taxus Cuspidata.
We offer new crop direct from Japan. Let us know the quantity you require.

AMERICAN BULB CO.
1335 W. Randolph St.
Chicago 7, Illinois

MONTMORENCY CHERRY SEEDS.
Germinate well; seedlings bud readily or make good trees without budding. Dry or stratified. Postpaid, 60c per lb., \$5.00 per 10 lbs. By express or freight, 40c per lb.

Noble Nursery, Noble, Okla.

OSAGE ORANGE SEEDS.
(Maclura aurantiaca or pomifera, Bois d'Arc.)
Clean, new crop seeds.

RAY WICKLIFFE
Seneca, Kan.

SHRUBS AND TREES

LINING-OUT STOCK.
Heavy-rooted, once-transplanted, shipped in peat.

	Per 100	Per 1000
Heather	\$10.00	\$90.00
Med. Hybrid	12.00	110.00
Mrs. J. H. Beal	10.00	90.00
Mrs. Maxwell	10.00	90.00
Springwood White	11.00	100.00
County of Wicklow	11.00	100.00
Hamilton	11.00	100.00
Carnes roses	12.00	110.00
Canoria Brilliant	15.00	140.00
Valvillia	15.00	140.00
Tetralix	15.00	140.00
King George	14.00	130.00
Mrs. J. H. Beal	12.00	110.00
vulgaris alba	12.00	110.00
Daphne cneorum	14.00	130.00
Daphne odora	12.00	110.00
Lithospermum	18.00	140.00
Viburnum burkwoodi	11.00	100.00
Clematis montana rubens	20.00	190.00
Azalea mollis, cream, 2-yr.	12.00	110.00

Packed free, cash with order. Shipped F.O.B.

FOUR STAR NURSERY Edmonds, Wash.

Route 3, Box 3629

WEeping WILLOW.
Salix babylonica. Excellent trees, with well developed tops, roots and caliper.

	Per 10	Per 100
4 to 5 ft.	\$4.00	\$35.00
5 to 6 ft.	7.50	60.00
6 to 8 ft.	12.50	100.00

Salix elegantissima. Thurlow Golden Weeping Willow, 4 to 5-ft. and 5 to 6-ft. sizes priced as above.

Lining-out grades, both varieties:

	Per 100	Per 1000
2 to 3 ft.	\$7.50	\$65.00
3 to 4 ft.	8.50	75.00

Ask about our Ash, Elm, Maple and Peach trees.

F.O.B. Exmore, Va. Packing additional.

TANKARD NURSERIES Exmore, Va.

RED JAP. MAPLE SEEDLINGS.
Carefully selected for good color.

Per 100 Per 1000

Acer palmatum atropurpureum	
10 to 12 ins.	\$40.00 \$350.00
8 to 10 ins.	30.00 250.00
6 to 8 ins.	25.00 200.00
4 to 6 ins.	15.00 120.00

These seedlings are exceptionally red.

Acer palmatum atropurpureum. Not selected for color.

Per 100

8 to 12 ins.	\$10.00
4 to 6 ins.	6.00

Cash with order. Special price on 2000 or more.

ELWOOD HUBBS Palmyra, N. J.

204 Delaware Ave.

MIMOSA.

Silk Tree—Albizia julibrissin.

We have a fine healthy stock of this rapid-growing, desirable small tree. Foliage fine and feathery. Large clusters of pink flowers in early spring. Very attractive.

Booking orders for delivery now and later.

5 to 8 ins. \$5.00 per 100

10 to 20 ins. 8.00 per 100

24 to 30 ins. 15.00 per 100

40 to 60 ins. 50 each

50 at the 100 rate. Not less than 10 of the 50c size.

RIEDEL PLANT CO.

Experiment, Ga.

JAP. MAPLE SEEDLINGS.

GRAFTING GRADE.

Booking orders for fall, 1949, delivery.

\$12.00 per 100. \$100.00 per 1000.

Carefully graded for correct diameter.

Orders must be in by March 1, 1949, as only plants on order will be transplanted.

20 per cent deposit, balance on delivery.

ELWOOD HUBBS

204 Delaware Ave. Palmyra, N. J.

Rhododendron, hemlock, arbutus, native azalea, white pine, dogwood, laurel, Acer dasycarpum, galax and others. Collected stock. List free.

NATURE'S GREENHOUSE

Tallulah Falls, Ga.

MAGNOLIA NIGRA.

Well grown, 2½-in. pot plants, for fall, winter and spring delivery. \$25.00 per 100.

WELCH BROS. NURSERY

Semmes, Ala.

TEXAS UMBRELLA TREE.

Melia azedarach umbraculiformis.

We are offering good, true stock of this most desirable rapid-growing tree. Taking orders for delivery now and later.

15 to 18 ins. \$8.00 per 100

20 to 22 ins. 15.00 per 100

50 at the 100 rate.

RIEDEL PLANT CO.

Experiment, Ga.

CHINESE ELM Per 100 Per 1000

3 to 4 ft. \$5.50 \$45.00

2 to 3 ft. 3.00 25.00

18 to 24 ins. 2.50 20.00

12 to 18 ins. 1.75 15.00

6 to 12 ins. 1.20 10.00

CLINTON NURSERIES & GREENHOUSES

Clinton, Okla.

PRIVET.

We have a fine lot of extra-heavy California Privet, 3 to 4-ft. grade.

Wholesale only.

CHARLES MOMM & SONS, Inc.

1417 Stuyvesant Ave. Union, N. J.

NEW, DEEP PINK-FLOWERING MIMOSA.

Truly a beautiful quick-growing shade tree. 100 per cent true from seeds.

100 seeds for \$1.00.

MURRAY HILL FLORIST

205 Murray Hill Ave., N.E. Atlanta, Ga.

VEGETABLE ROOTS

RED RHUBARB. McDonald

Large, true-to-name divisions.

\$15.00 per 100, \$120.00 per 1000.

Cash with order, packing free.

KEELER'S GARDENS

St. Louis, S. D.

VINES

BITTERSWEET (Celastrus Scandens).

6-yr., fruiting-size clumps, \$1.50 ea.

WAYNESBORO NURSERIES

Waynesboro, Virginia

GRAPE CUTTINGS.

Caco, Beta, Fredonia.

C. D. Wright

Hamburg, Iowa

MISCELLANEOUS

25,000 Hardy Pixwell; 25,000 Shrubs, Amur

River North Privet, 100,000 8-in. cuttings,

\$3.00 ea. 1000; Kentucky cove, 25c per

lb.; Sycamore (Platanus), 45c; Allanthus,

75c; Catalpa, 95c.

SCHROEDER NURSERY CO.

Granite City, Ill.

SUPPLIES

MEL-LO PEAT.

A pure sedge Peat, sun-cured, air-dried, analyzed 2 to 2½ per cent nitrogen, 96 per cent humus; acidity, 5.3 to 5.8. Golf courses demand Mel-lo Peat—will not ripple after top dressing greens. Greenhouses, nurseries and landscape gardeners repeat orders year after year. Not to be confused with muck soils advertised as Peat. Mel-lo Peat is analyzed for your protection. Delivered 11,000 bushels to the State of Ohio Forestry Nursery, Marietta, O.—A good recommendation for Mel-lo. We deliver in truckload within 200 miles of our plant. Write for prices.

Order early. Check with order.

5 to 10 2-bu. bags, F.O.B. our plant, \$1.25

11 to 50 2-bu. bags, F.O.B. \$1.10

51 to 100 2-bu. bags, F.O.B. \$1.00

101 to 200 2-bu. bags, F.O.B. .90

Excellent for lawns, gardens and shrubs.

Snagdrags, Azaleas, Hydrangeas, Cyclamen, Camellias, Gloxinias, Carnations, Poinsettias, Tuberous Begonias and many other plants. Be safe with Mel-lo.

MEL-LO PEAT CO., WILLARD, O.

PLANT COVERS.

LANDSCAPERS, PLANTERS AND SALESMEN, ATTENTION!! Here is the cheapest insurance you ever bought, and each cover can be used over and over again. Stop that replacing and customer complaint.

When you plant evergreens and landscape pieces, put one of these "greenhouses" over them. Leave it there for a few days until the plant gets over the shock of being moved—cuts losses to a minimum. Fine for winter protection over old plants. Sell these covers to your customers who do their own planting. Cuts their losses, which ordinarily come back to you as a complaint. Each cover is windproof, 4½ feet high and 30 inches in diameter. The top 18 inches is heavy cellophane, which makes it an individual "greenhouse" for each new, or old plant, 60c each. A war surplus item designed for personal protection against injurious gases. Supply limited.

WILSON BROTHERS

Newsome 6, Texas

CAMOUFLAGE WIRE.

Excellent protection against frost and sun.

Used over beds, shade houses, greenhouses, sales grounds, etc., with satisfaction by hundreds of growers. Rolls, 8 ft. wide by 75 ft. long. Consists of steel wire, 16 gauge, welded wire fencing. Only \$6.00 per roll, cash with order. Large lots quoted.

TANKARD NURSERIES

Exmore, Va.

MICHIGAN PEAT.

AMERICA'S TOP-QUALITY PEAT.

Gives results you can't beat. For 30 years, the trade's favorite. Excellent for all plant life, indoors or out. Unsurpassed for lawns, too! Free from weed seeds, pH 4, bacterially active—HIGH NITROGEN CONTENT. Fine, medium, coarse grinds. MICHIGAN PEAT is your best "buy." Order today!

Each \$1.45
2 to 19 bags (4-bu. bags) \$1.60
20 to 200 bags (4-bu. bags)
F.O.B. PEAT BOGS, CAPAC, MICH.
Also packed in 25-lb. and 50-lb. bags for resale profits. Low prices on bags or bulk. Koster Nursery tests prove M. P. does a better job more economically; write for copy. WHY PAY MORE?

MICHIGAN PEAT, Inc.
267 Fifth Ave., New York 16

KNOCK-DOWN FLATS.

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.
16x12x3 1/2 \$16.25 per 100
16x14x3 1/2 20.50 per 100
20x14x2 1/2 20.00 per 100
20x14x3 1/2 23.00 per 100
22 1/2 x 15 1/2 x 3 1/2 25.00 per 100
22 1/2 x 15 1/2 x 3 1/2 25.00 per 100
All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Flats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.
HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

CANADIAN BALED PEAT.

Bales packed tight with long-lasting veneer on six sides, 12 or more bushels of quality peat moss to each bale. Suited to outside storage. Approximate weight, 100 lbs.

\$3.50 per bale, or \$3.65 per bale for 10 or more.

VERHALEN NURSERY CO.

1114 South Beckley
Dallas 8, Texas
Phone: Winfield 9876
Scottsville, Texas
Phone: Marshall 4876

SHOVELS.

WAR SURPLUS—These are standard No. 2 size, short-handled, "D" grip shovels and show no sign of excess wear. Have been stored and are in excellent condition. Have been used some but never resharpened, so you know they will give months and years of service. Same shovel selling up to \$2.25 at hardware stores. We have a limited quantity for \$1.19 each F.O.B. shipping point.

WILSON BROTHERS
Newsome 6, Texas

NOW IS THE TIME.

Build new low-cost shade houses, or replace your old worn-out lath or slat houses with BRAND-NEW LOW-COST Heavy Steel Wire Camouflage Netting. Write for descriptive folder and prices to cover any amount of this material you may need from one roll to carlot shipments.
H. M. OWEN or E. A. FARLEY
P. O. Box 946 3333 Gentilly Blvd.
Columbus, Miss. New Orleans, La.

ASPHALT PAPER POTS.

Suitable for potting roses, shrubs, perennials, bulbs and other plants. Bottoms sealed. Top diameter, 7 ins. bottom, 5 ins., height, 9 ins. Plant pot and all, as roots grow through sides. Pot lasts 6 to 12 months on top of ground. \$6.00 per 100, \$50.00 per 1000. Weight, 25 lbs. per 100. Samples on request.

BOULEVARD NURSERIES

Dept. B. Newport, R. I.

HYPER-HUMUS, finest of cultivated peats, will be on display at the Ohio, Illinois and Michigan meetings. For highly satisfactory use for potting mixtures, perennial storage and shipment, lawn top dressing, rose beds, evergreen mulching and difficult transplantings. See HELEN YEARSLEY for prices, or write direct to the HYPER-HUMUS CO., Newton, N. J.

MINNESOTA WHITE CEDAR FLATS

12x16x2 1/2 \$18.25 per 100
14x20x2 1/2 22.00 per 100
14x20x3 1/2 25.00 per 100
Other sizes quoted on request. Also crating and other lumber, Aspen and Pine. F.O.B. Cook, Minn. Attach check.
H. C. HILL & SONS, Cook, Minn.

PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel, 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00. Large burlap half-bale bags, \$1.60 each; 10 or more, \$1.50 each.
COLBY PIONEER PEAT CO., INC.
Hantelown, Iowa

HEATSUM CABLE

Roots more cuttings in less time; protects outside sash and water pipes; melts snow in gutters, on walks and driveways. Units available 60 ft. to 1,000 ft. long. Present your problems to our engineers.

L. N. ROBERSON CO.
1539 East 103rd St. Seattle 44, Wash.

HIGH NITROGEN HORTICULTURAL PEAT.
Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00.

COLBY PIONEER PEAT CO., INC.
Hantelown, Iowa

WISCONSIN'S QUALITY SPHAGNUM

MOSS.
Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better. Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

SPHAGNUM MOSS.

Clean, long-fibered, well pressed burlapped bales of standard size, \$1.35 per bale, F.O.B. City Point. Cash with order. Write for prices on carlots. Immediate shipment.
THOMAS RESEHL
City Point, Wis.

GIBALTAR Frost Covers pay for themselves. Economical, long-lasting. Ideal for windbreaks, 4 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

SEED STORE FIXTURES

Bins, Cabinets.

WALKERBILT WOODWORK, Inc.
Penn Yan, N. Y.

PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders. Samples sent.
J. GARLAND HILL, Dept. A, Seaford, Del.

TELLS HARVEST DATE.

The tenderometer, a machine which measures shearing, has been found useful in telling when to pick commercial fruits at the proper stage of firmness for market and for processing. Tests made at the New York agricultural experiment station at Geneva, N. Y., on apples, peaches and pears gave an accurate measure of their ripeness.

According to Dr. F. A. Lee and Dr. G. D. Oberle, who carried on the experiments, the tenderometer is also now in use at many canning and freezing plants for testing the quality of peas. Since ripening of the fruits tested is accompanied by a softening of the tissue, they supposed it might also have value in determining the harvest point of these fruits.

It is probable, they point out, that the method could be applied to any fruit the flesh of which could be cut into cubes and which contained no interfering seeds. These cubes, about one-quarter inch on a side, are placed in the tenderometer for the test.

THE Sunset Succulent Nursery, Grover City, Calif., has been taken over by Claude Thompson from Mr. and Mrs. Phillips. He will operate it under the same name.

STARTED about nine months ago in Siskiyou county, near McCloud, Calif., a 15,000,000-tree capacity nursery to produce 5,000,000 2-year-old trees annually to plant burned over areas in the national forests in California is nearing completion, according to Robert Jones, supervisor of Shasta National Forest. Eventually the nursery will replace a similar 1,000,000-tree capacity nursery in Lassen county.

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.
Lines: 25¢ line; Minimum order \$2.00.

HELP WANTED

Young to middle-aged man, with knowledge of mid-southern nursery stock, who can design, sell and carry through home and other small landscape plans. Also desire one with some knowledge of pruning, spraying, lawn and tree work. A small nursery but permanent all-year work, with chance to take over landscaping department for right man. Please give age, family, experience and minimum salary to start.

BLAN NURSERIES & LANDSCAPING

Station B, Box 56, Fort Smith, Ark.

HELP WANTED

Experienced landscape foreman and architect to take charge of our landscape department, one who can draw plans, estimate, sell and supervise plantings. Must be energetic, honest, thorough and willing to work. Permanent position. State experience, references and salary expected in first letter.

HALLA NURSERY

5200 Willson Rd.
Minneapolis 10, Minn.

SITUATION WANTED

Young, energetic Dutchman, wishing to emigrate and willing to work, seeks situation. Age 32, married, 2 children, 16 years' experience in propagating and general nursery work. State full particulars and salary offered in first letter to MAURICE C. RAVENSBURG, Export Nurseries, BOSKOOP, HOLLAND, who will give you all information required.

SITUATION WANTED

Dutch nurseryman residing in the U.S.A. wants position, preferably in Wash., Oregon or northern Calif. Had leading position in Holland, propagating and growing nursery stock for over 25 years. Specialized in grafting of Rhododendrons and azaleas. Address Box 593, care of American Nurseryman.

HELP WANTED — Experienced planting foreman in southeastern state. Come south to spend the winter and if desired will give release to return north in spring. Good salary and living conditions. Also can use good nursery foreman. Applicants must be steady, sober and experienced. FRASER NURSERIES, Inc., P. O. Box 465, Birmingham 1, Ala.

SITUATION WANTED—Unmarried Dutch nurseryman, age 21, wants employment in an American nursery in nice surroundings. J. A. KONIJN, Tempel D. 65, Reeuwijk, Nr. Boskoop, Holland.

A 4-FLOOR office building under construction for the past fifteen months was recently completed by C. W. Stuart & Co., Inc., Newark, N. Y. Herman Weller, Holland, Mich., has moved to Newark to manage Stuart's perennial department.

MINNESOTA CONVENTION.

[Concluded from page 8.]

clude orchard inspection, weed control, seed inspection and control and apiary inspection. Because of the added work, he said, he was not able to get out and see the nurserymen so much as he would like to.

Included in the budget of the entomology department is a sum of money needed to obtain a man who would devote his entire time to the stone fruit virus program.

Last winter, because of its severity, killed off eighty per cent of the corn borer in Minnesota. Yet Mr. Aamodt reported a \$10,000,000 loss to the corn crop because of borer damage. The corn borer situation this year is different than last, since after the milder fall, more of the borers will winter over. They must be controlled next year.

Mr. Aamodt reported a heavy infestation of grasshoppers in Minnesota, almost as large as that responsible for heavy damage several years ago in the north and western parts of Minnesota. With the use of the new sprays, Chlordane or Toxaphene, a 100 per cent kill can be accomplished.

Mr. Aamodt also reported on the latest quarantine controls and the work of the Central Plant Board.

Wayne Ferris, regional member of the A. A. N. executive committee, reported on activities of the national association with a view to interesting additional members in the state. The luncheon that followed was especially for A. A. N. members.

Fruit for Minnesota.

At the afternoon session, Prof. W. H. Alderman, chief of the division of horticulture at the University of Minnesota, reported on the winter damage to fruits in Minnesota. Last year proved to be a test winter for many varieties.

The department of horticulture and the fruit-breeding farm at nesota farm was awarded the Wilder medal by the American Pomological Society for outstanding introductions in horticulture and new varieties. This award is given only for work or varieties of superior merit. Professor Alderman announced the names of some fruits that have been introduced under numbers. Minnesota No. 714 apple has been named Oriole. Minnesota No. 4 pear is now called Golden Spice. Minnesota No. 63 Nanking cherry is named Orient. Minnesota No. 101 plum is now called Red Glow, and a plum originally from South Dakota which has been called South Dakota No. 27 will now be called just South Dakota.



\$112.50, equipped with three ball-bearing wheels.

\$125.00, equipped with two tapered roller-bearing main wheels, ball-bearing wheel in swivel. Recommended when truck is to be used as dolly or trailer.

ALL prices F.O.B. Kansas City.

NOW, You can get this BIG HAND TRUCK at once.

New, modern equipment now in use by hundreds of nurseries.

SAVE TIME and LABOR

Handle heavy jobs easier, faster, with fewer men. Get into places otherwise inaccessible to heavy equipment, without damage to established lawns.

HANDLES 40-inch BALL — 1500 lbs.

SPECIFICATIONS

- Specially designed curved nose.
- Electrically welded—strong, sturdy
- Equipped with three 4-ply 16-inch tires.
- Over-all width, 45½ inches.
- Over-all height, 7 feet 9 inches
- Weight, 175 lbs., including 19-ft. chain.
- Attractive, professional appearance.

Write for free illustrated folder.

THE GARDEN SHOP, Inc.
4833 Mission Rd., Kansas City 3, Kan.

PROPER PRUNING WILL PROTECT YOUR TREES

Damage by ice and wind often can be avoided, or the effects lessened, by use of correctly designed pruning tools, bracing materials and tree wound dressing.



No. 127 PARAGON SAW. This curved blade, draw cut pruning saw is ideal for all-around pruning. Best quality saw steel. Easy grip handle.

18-in.	\$3.40
22-in.	3.85
24-in.	4.10
26-in.	4.40

Postpaid

Ask about authoritative bulletins on Tree Care.

BARTLETT MFG. CO., 3058 E. Grand Blvd., DETROIT 2, MICH.

GUARD AGAINST DECAY by dressing wounds with Bartlett Black Asphalt Tree Paint. Easily applied with ordinary paintbrush. Will not freeze.

\$2.25 per gallon, F.O.B. Detroit. Express Collect.



Please do not request C.O.D.

Those YELLOWING LEAVES may turn GREEN IF YOU SPRAY THEM WITH

For chlorosis due to iron deficiency.

Does not contain Iron sulphate.



4-oz. jar \$1.25
(Makes 1½ gals.)

1-lb. jar \$3.00
(Makes 6 gals.)

SCHUYLKILL CHEMICAL COMPANY Dept. J 2346 Sedgley Ave. Philadelphia 32, Pa.

Then followed a discussion of varieties of apples for Minnesota.

Iron Range Rehabilitation.

R. E. Wilson, commissioner of iron range resources and rehabilitation, talked about the work which his commission is doing for the state. Much is being done to create new jobs in the northern part of the state.

New pilot plants are now in operation where the processing of iron dust is being studied. This makes a pure iron, which will be shipped out, instead of the ore as before. This iron dust is excellent for making such things as gears. It is pressed into

molds under pressure and requires less tooling than is necessary with steel.

The commission is also experimenting with peat from which it gets liquids that are made into chemicals. The commission is doing considerable research with aspen wood, which, when ground up to pulp and pressed under pressure, makes a product similar to plywood, very hard and durable.

HAVING purchased Tull's Plant & Flower Farm, Route 7, Box 259-A, Memphis, Tenn., H. L. Oakley has renamed the business Oakley's Nursery & Greenhouses.

LANDSCAPE ARCHITECT'S DALLAS DEVELOPMENT.

A large crowd of persons attended the formal opening the afternoon of December 5 of Lambert Gardens, 2518 Cedar Springs road, Dallas, Tex., which are another development of the city's Cedar Springs area by Joseph O. Lambert, Jr., Dallas landscape architect. The opening day program included a formal ceremony by Mayor James Temple, the singing of Christmas carols by the Highland Park junior high school boys' choir, the lighting of a giant Christmas tree by Ray Hubbard, president of the Dallas park board, and tours of the gardens.

Part of the over-all revitalization and restoration of a decadent neighborhood through remodeling and repainting instituted ten years ago by Mr. Lambert, Lambert Gardens are centered around an abandoned filling station near a railroad underpass. With the approval of railroad officials, the underpass was painted Lambert green, a color developed several years ago by Mr. Lambert; the grease rack at the filling station was bricked in to make a tool house; a fine old carved Italian door was added to join the tool house to the station proper, which is now converted into offices and the entrance to the gardens with a wrought-iron fence from Charleston. An asphalt drive through the gardens also serves as a parking lot.

Covering over five acres of land, Lambert Gardens have been developed as a series of ever-changing formal and informal gardens to suggest plans for home gardens the year around in addition to serving as a commercial nursery for the selection of plants and garden ornaments. Gates, furniture and ornaments for the garden which are displayed represent collected items, some of much antiquity, from various parts of Europe and China as well as America. The gardens were also created as a beautiful setting for community projects. The Dallas Garden Club plans to hold its spring show here. Plants in the gardens represent a wide and varied collection from over the United States. For the opening rare camellias were flown from the west coast.

The new enterprise received excellent publicity in the Dallas newspapers, with stories appearing before and after the opening on the news pages and in the business, garden and society sections. The day of the opening, the entire first page of the women's society section of the Sunday morning edition of the Dallas

Test Your Own Soil

Grow Better Quality **Get Bigger Yield** **Save Fertilizer** **Boost Your Profits**

LOOK at What You Get

This de Luxe Professional Model Sudbury Soil Test Kit is exactly the same model furnished government departments, wholesale growers, florists, nurserymen, private estates, etc.

Makes hundreds of tests—more than pays for itself in a year (laboratories charge about \$3.50 for each soil sample).

Substantial wooden chest (6 1/2 inches x 18 1/2 inches x 5 1/2 inches). Solutions for nitrogen, phosphorus, potash and acidity tests, test tubes with corks, built-in test tube rack, glass funnels, filter paper, pure tin stirring rod, analysis gauges, etc. Complete, easy-to-follow directions make soil testing simple.

Only \$22.50
EXPRESS PREPAID

Dealers write for Special Offer on this and also smaller models at \$12.50 and \$4.75.

The Amazing SUDBURY SOIL TEST KIT

No Knowledge of Chemistry Needed

Easy to do expertly. Nurserymen everywhere report sturdier stock, more plants per acre, more profit—by testing their soil the Sudbury way.

You quickly learn how much nitrogen, phosphorus and potash are needed for ideal growth. Also whether your soil is acid or alkaline (pH) and how much soil sweetener or lime to use; how much souring solution or aluminum sulphate for acid-loving plants. Charts show needs of 125 flowers, vegetables, shrubs, trees, etc.

The Sudbury Soil Test Kit assures better quality, bigger yield, and boosts your profits! It saves money often wasted on wrong analysis fertilizer—which may even injure valuable crops.

Test any field or plot—even your soil in the frames or greenhouse—whenever you want. No lost time waiting for reports—no exacting measurements or "eye-droppers" required. In 10 minutes nurserymen learn more about their soil than in a lifetime of business.

ORDER YOURS RIGHT AWAY

Right now is one of the seasons you'll save most by testing your soil. Order your Sudbury Soil Test Kit today. Send no money. Order C.O.D. (or send remittance and we'll pay express). Money-back guarantee. Immediate delivery.

Sudbury Laboratory, Box 737, South Sudbury, Mass.
WORLD'S LARGEST MAKERS OF SOIL TESTING EQUIPMENT

PLANTthion!

15% WETTABLE PLANTthion (For Outdoor Use Only). For use as a spray by outdoor growers. Good control of cyclamen mite on delphiniums, red spider on evergreens, azaleas and hydrangeas, etc. Use from 1/2 pound to 2 pounds per 100 gallons.

4-lb. bag.....\$7.00

2% PLANTthion DUST (For Outdoor Use Only). For ornamental crops for those who prefer to dust. 20 to 35 pounds are used to the acre.
25 lbs.....\$10.00 50 lbs.....\$18.00



PLANT PRODUCTS CORPORATION

BLUE POINT, L. I., NEW YORK

Morning News was devoted to pictures of Dallas garden club women visiting the gardens before the formal opening. In addition to mailing out special announcements of and invitations to the opening, Lambert Gardens ran large advertisements in the Dallas newspapers of the opening.

Coincidentally with the opening of Lambert Gardens, Nieman-Marcus, well known women's apparel store at Dallas, introduced a collection of clothes and accessories in Lambert green, the shade developed by Mr. Lambert and which has become his hallmark. The store presented the color in a full-page color advertisement in the Dallas Morning News.

MICHIGAN GRADUATES FORM ASSOCIATION.

December 16 was graduation day for thirty-three students in the 2-year course in nursery and landscape management at Michigan State College, although they completed their courses September 3. Six of the graduates now own their own nursery or landscape business, twenty-one are working for other nurseries, and six have returned to their home nurseries.

The seminar session for the graduates was held in the Horticultural building before the graduation ceremonies. Dr. H. B. Tukey, head of the department of horticulture, and Dr. Roy E. Marshall, professor of pomology, and several other members of the staff addressed the graduates.

The graduation ceremonies ended with dinner at the Union building on the college campus. Letters of congratulation were received from Clifford R. Emlong, president, Michigan Association of Nurserymen; Arthur L. Watson, chairman, educational committee, Michigan Association of Nurserymen, and C. A. Boyer, bureau of plant industry, state of Michigan, with a lengthy telegram from Ernest Durant, president, offering the congratulations of the Grand Rapids Nursery and Landscape Association.

Afterward the graduates formed an association to be known as the Michigan State College Nursery and Landscape Alumni. Membership is limited to those having received a certificate for completion of the training course in nursery and landscape management at the college. The objectives of the association are to promote close relationship and cooperation between graduates of the course, to hold an annual meeting, to discuss and crystallize opinions pertaining to nursery problems, to act as an ad-

RESULTS GUARANTEED or MONEY BACK



FEED AS YOU WATER

New LOOK for TREES - EVERGREENS - LAWNS - GOLF GREENS

LAWN MARVEL contains every essential element to assure the finest results in trees and lawns. Tests prove that lawns will stay green even on dry, hot days. Trees will take on a new, deep foliage. LAWN MARVEL is used and endorsed by leading Universities, Golf Courses and Nurserymen. We know of no other water-soluble plant food equal to LAWN MARVEL. You'll get better results and SAVE MONEY.

Sell it—list LAWN MARVEL in your catalog. Stock it as a retail item. Write for information on 10-day TRIAL OFFER.

See our representative at the Illinois State Nurserymen's Association convention.

PLANT MARVEL LABORATORIES
12050 Parnell Ave. CHICAGO 28, ILL.

TIMELY NECESSITIES
for Prompt Shipment

- "HOLLANDIA" BURLAP SQUARES
New Material, Soft, Easy to Tie; Saves Time, Labor and Twine.
- REED MATS for coldframes
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1949 ALL-AMERICA FLOWERS AND VEGETABLES.

Three new annual flowers and seven new vegetables have won All-America Selections awards for 1949 introductions, W. Ray Hastings, chairman, has announced, and seeds are now available from any reliable seed firm.

A new petunia variety, named Silver Medal, was awarded the silver medal, and it is the second variety winner in a new hybrid class called multiflora, the first winner, Pink Sensation, having been introduced last year. An extra-strong grower and prolific bloomer, this year's winner has a more pleasing deep salmon coloring, popular for bedding and cutting and for arrangements under artificial lights. A rich salmon-pink, it starts blooming early, the plants being almost covered with large single flowers, and continues to bloom until freezing weather. Its strong bushy growth is self-supporting, and its hybrid vigor is reported to be compensated with larger and more abundant flowers than on standard bedding petunias.

The bronze medal has been awarded

visory body and assist the college in educational programs for nurseries, to support current projects having nursery and landscape interests, to support the student nursery and landscape forum in its endeavors at flower shows and in establishing an arboretum at the college, to pool experiences in the nursery industry and to cooperate with other organizations in the same or adjacent fields of interest.

The following were elected officers of the new association: President, Harry Brumpton, Brumpton Nursery, Windsor, Ont., Canada; vice-president, Barney Gleason, Ilgenfritz Nurseries, Inc., Monroe, Mich.; secretary-treasurer, Joseph F. Reske, Detroit branch of Ilgenfritz Nurseries, Inc. Four others elected to serve with the officers as an executive committee were Otto Kuxhaus, George Young Nursery, Royal Oak, Mich.; Joseph R. Fleurent, Morton Arboretum, Lisle, Ill.; Jack E. Frost, Frost Nursery, Flint, Mich., and Richard A. Leyes, Norm Kessels, East Lansing, Mich.

to Indian Summer hollyhock. While strictly perennial, it will bloom the first season from seeds started in early spring, and it is thus called an annual double hollyhock. Its assortment of shades, from soft dainty yellows to chamois and white, as well as other pastels, and its doubleness were obtained from crossing an annual Indian Spring hollyhock with a mammoth double Chater strain. The growth is strong and straight, with tall flowering stalks and luxuriant foliage. The plant originated in Holland before the war.

Blue Star morning-glory, a sport of Clark's Early Heavenly Blue, has been given honorable mention. It is a light blue with deeper blue midrib stripes to form a star. Like its parent, it is a rampant grower, literally covered with blooms. This mutation was found in France and garnered by a Dutch seed grower for increase and entry in the All-America flower trials. The following year a California seed grower found a similar sport and, unaware of the French sport, entered his discovery. Both entrants agreed with the judges that they had the same variety and also agreed on Blue Star for its name. Both growers will supply seedsmen for cooperative introduction this year.

Of the seven superior new vegetables given awards by All-America Selections, Caserta summer squash received the gold medal, the first awarded a vegetable since 1935. Triumph bush Lima bean received the silver medal; Premier Great Lakes lettuce and Pennlake lettuce were given bronze medals, as was Cherry Belle radish. Honorable mentions went to Ideal Snowball cauliflower and Flagship hybrid sweet corn.

COVER ILLUSTRATION.

Albizia Julibrissin.

The albizias are common small trees of the upper south. In habit of growth they are twenty to twenty-five feet in height, low-branched and with a broad spreading head. They may occasionally reach a height of thirty-five to forty feet at maturity.

This small tree, native of Persia to central China, possesses attractive foliage and flowers. The leaves are twice compound with ten to twenty-five pinnae, each bearing forty to sixty small leaflets.

The flowers are the most showy part of the plant. They are light pink in color and form in heads, mostly near the ends of the branchlets. They are showy from June to August. Flat, legume-like pods, about four to six

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inches long, are present from September to December.

The one variety, rosea, is dwarfier and harder than the species. This is the variety many persons in the northern states try to grow. The species is not considered hardy north of Washington, D. C., and Knoxville, Tenn. However, it is not uncommon to find trees, especially the variety rosea, somewhat north of these regions, but they may be seriously injured during cold winters. In the horticultural gardens at Ohio State University a plant of Albizzia julibrissin rosea had been doing well for several years, attaining a height of about twelve to fifteen feet. In the winter of 1947-48 it froze back to the ground. It had bloomed well for the past few years.

The albizzias seem to do well in a variety of soils, ranging from those sandy in nature to relatively heavy silty clay loams. They should be planted in sun and, if used north of the accepted hardiness zone, given some protection. Propagation is by seeds, which, like most of the members of the leguminose family, possess a hard coat. Previous to sowing, pour hot water over them and let them soak over night. When seeds are sown in well prepared beds such a treatment should give good germination in a short time.

Objections to the albizzias are the susceptibility of the species to a wilt disease and the fact that the old flowers and fruits are messy.

Albizzia julibrissin rosea is more worthy than the species and is best used as a small landscape or street or boulevard tree. When it is used as a landscape plant, give it a background of evergreens if possible. Such a dark green background greatly enhances the beauty of the flowers. L. C. C.

THE Knorr Nursery, 7823 East Firestone boulevard, Downey, Calif., was leased recently by James P. Clark, Jr.

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WESTERN PENNSYLVANIA ANNUAL MEETING.

[Continued from page 12.]

The only taxus mentioned of large type, ten to twenty-five feet, was *Taxus cuspidata*, upright Japanese yew.

In discussing the culture and propagation of taxus, Dr. Chadwick stated that these evergreens may be propagated either by cutting or from seeds. Usually cuttings are preferred since they root quite readily, usually, with at least eighty-five per cent rooting, and the resulting plants are like the originals. Sand is still a satisfactory medium for rooting taxus, and the newer types of rooting media are not especially better than sand. If vermiculite is used, number 1 is the best grade. When propagation from seeds is practiced, the seeds should be collected in the fall, kept over winter and sown the following August. They should germinate the next spring.

Taxus will thrive on almost any type of soil, provided it is well drained. They will tolerate a wide range of acidity, at least from a pH of 5 to one of 7.

It used to be said that taxus were without pests, but that no longer is true, Dr. Chadwick said. There is one serious insect pest, the taxus mealy bug. Control may be secured by spraying with Loro 1-400. Probably one application will not be sufficient, but at least two will be needed. Loro may be combined with Volck 1-100, and a spreader might well be added. Whatever is used, thorough applications are essential for good control. Two other pests affecting the taxus are lecanium scale and blackvine weevil, or sometimes called strawberry weevil. The lecanium scale may be sprayed with two per cent Volck plus nicotine 1-800. A single summer spray may not be enough. There is a possibility that HETP would give better control. The blackvine weevil attacks seem to run in cycles. Poison baits are old remedies, but the recommended control is to spray the basal part of the plant with DDT during the middle to the latter part of May. Control may also be secured by soil treatment with fifty pounds wettable powder DDT or twenty-five pounds actual DDT per acre.

A movie demonstrating the use of chain saws was presented by the Mall Tool Co., a manufacturer of these saws.

After an excellent banquet and enjoyable entertainment, the final speaker was John O. Pepper, professor of entomology extension, Pennsylvania State College, who



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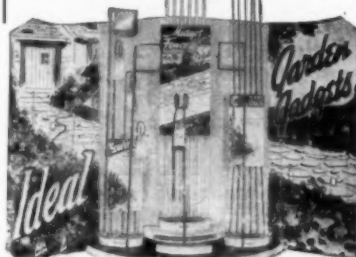
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spoke on "Insect Control and the Newer Insecticides." Professor Pepper stated that there was no one material that will give control of every pest; various materials will have to be used for different pests. For scale insects on deciduous material, dormant oil has been used for several years and still gives a good reliable control. Oil is also used on evergreens. A new material known as DN289 is showing considerable promise at the present time in controlling aphid eggs, mites and several of the scales. It must be used when plants are dormant and is used at the rate of two quarts per hundred gallons of water.

Some of the dinitro materials used in powdered form have given good results on aphid. The main disadvantage has been the yellow dye which discolors buildings and stays on the plant for a long time.

There are many types of mites, and different strains react differently to control measures. Sometimes good control is secured with wettable sulphur, but later no control is secured. This usually means a different type of mite. It may be necessary to use two or three different materials.

For many foliage-eating insects, DDT gives good control, but is of little use on bagworm. For bagworms, arsenate of lead still is probably the best material. However, with the majority, DDT is effective. All is not known concerning the eventual effect of using DDT over many years. It is quite certain that continued use of DDT will result in larger populations of mites and leaf rollers.

Professor Pepper stated that good control of many of the boring insects could be secured by using DDT as a spray or paint at the rate of two pounds to five gallons of water and applying to the affected areas. Probably two applications will be required, the first when the insects are first noticed, during the first part of June, and the second during the first part of July. This material has been known to kill borers after two weeks' penetration.

In controlling soil insects DDT is again effective on many, such as the strawberry weevil. Tests using ten, twenty or thirty pounds of actual DDT per acre all gave complete kill of the insect. It may be applied dry and worked in or applied in liquid form. Another material showing great promise is Chlordane. This material seems to give faster kill than DDT, but it is not known how long it will remain effective in the soil. It has given good results for a 2-year period. DDT is not always effective

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on grubs. It is good for Japanese beetle grubs, but has little or no effect on annual white grubs. Chlordane has given good results with the latter.

Professor Pepper pointed out that there are and will be many new materials offered. He warned against going overboard for a material until it has been tested for its effect on the operator, the plant and the insect. By way of example, he pointed out that benzene hexachloride had given

excellent results on insect control but later was found to affect the flavor of peaches and potatoes when used in certain strengths. It also prevented germination of some cover crop seeds. Thus it is imperative that caution be practised when considering the new materials.

A SMALL nursery is being started at Ojai, Calif., by Charlotte W. Whitney.

WASHINGTON MEETING.

[Continued from page 14.]

siderations were the previous treatment and cultural practices which had been applied and characteristics of the crop being grown. To apply fertilizers with profit, Mr. Dunard pointed out that it was necessary for the grower to have some knowledge of what each element in the fertilizer would provide to the plant for its feeding needs.

The following talks on problems with plants in containers also proved interesting. L. H. McGuire, Puget Sound Nursery, Tacoma, opened with the statement that the practice of using containers for selling growing plants should be used intelligently. The system, while a good one, should not be used just to dispose of spring surplus plants. Plants should be put into the containers early in the season so that a good root system may be developed before the plants go to the customer. Paul Maer, Wedgwood Gardens, Seattle, followed with a history of plant containers and their use. From the experience of many years of successful merchandising and use of plants in cans and other containers Mr. Maer was able to present a number of valuable points for extending nursery sales periods. It was pointed out that the period for landscape work became much more flexible through the use of plants in cans rather than being limited to the short dormant period.

As the growing of azaleas and rhododendrons is a major factor in many nurseries in the western portion of Washington, the next talk met with much appreciation. Prof. J. W. Caddick, of Washington State College, has been carrying on some experiments in the use of supplementary artificial light to stimulate better germination and growth of seedlings. His talk on starting ericaceous seeds under lights showed how it was possible to increase greatly the vigor of small plants under this system. Fluorescent lights were used on a 24-hour basis to supplement daylight in a greenhouse. Feeding and watering of plants in flats were accomplished through the glass wick method, the flats being placed upon metal tanks containing feeding solutions. Soil mixtures most effective were half vermiculite and half peat moss, with another mixture containing a third of peat, leaf mold and vermiculite or sand as second best.

Another highlight of the afternoon session was the panel discussion on "Improved Merchandising Through Efficient, Attractive Salesyards." Harold Hopkins, Hopkins

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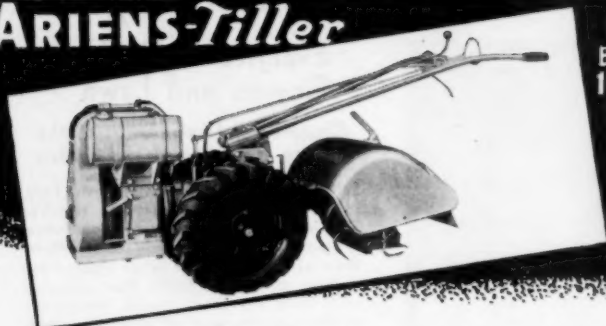
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Nursery, Bothell, spoke first. Efficient selling was his criterion in determining the value of a salesyard. Beauty is the product being sold, and salesyards should be attractive to help sell beauty. Neatness is essential in maintenance, which means that piles of rubbish, discarded diseased plants and odd papers should be kept out of sight of the buying public. Mr. Hopkins pointed out the necessity of wide and dry paths, finding that sawdust was best for this use.

Boyd Haddock, Malmo Nurseries & Seed Stores, Seattle, followed with an analysis of the buying public and how it might be encouraged to buy more. With many years of experience in merchandising in the hardware field, Mr. Haddock contributed several points of importance. With the large garden, estate and carriage trade on the decline Mr. Haddock felt that the small back-yard gardener was the best potential market for nursery products. Another important consideration was the fact that eighty-five per cent of buying is done by women. Women are accustomed to do their buying in stores where every comfort is provided in clean attractive surroundings. To attract woman shoppers nurseries should provide similar conditions, Mr. Haddock felt.

The comments of Philip Chandler, Richmond Beach Nursery, were especially well received. Mr. Chandler had just returned from an extensive trip to many points in the United States and England observing the nursery industry. A number of methods for developing customer good will were listed by Mr. Chandler, including some thoughts on the proper location and arrangement of nursery grounds facilities.

AUGUST CAN BE COLORFUL.

[Continued from page 20.]

more, which fits the foregoing kinds to a middle position in the border, there is variety Goblin, which seldom exceeded a height of one foot in trials here. Its low, compact habit and long display of rich red and yellow flowers make it a good edging plant.

If one does not tire of composites, a colorful, mostly yellow, summer garden could be made of gaillardias. In addition to the yellows named before, one could add golden marguerite, Anthemis tinctoria; coreopsis; Lepachys pinnata; Centaurea macrocephala; several rudbeckias, and other heleniums and sunflowers, knowing that the August garden will not be dreary.

The yellow section of the summer

garden would be incomplete without some representatives of the St. John's-worts. Although many of them finish their flowering in July, several are at the height of their glory in August, when their tasseled flowers produce a feathery effect obtainable from no other plant blooming at that season.

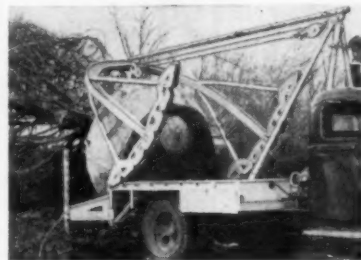
Here one finds shrubs, such as our native *Hypericum kalmianum*, that lights up rocky slopes in sun or shade in the northern states during July and August; rapid creepers, such as *H. calycinum*, whose large golden tassels from June through August and an ability to cover wide areas of barren soil in sun or shade make it a plant of much value, and the little restrained creepers, such as *H. empetrifolium prostratum*, that makes a thin heathlike carpet which serves as a background for a summer-long production of yellow flowers and is a plant of inestimable value in the rock garden or as a ground cover for small bulbs. Besides, we must remember the tufted little bushes, such as *H. coris*, with sprays of gold over gray-blue leaves during July and August, and several others, including the acid-loving *H. linearifolium*, *H. orientale*, the tender *H. patulum* and *H. repens*.

White Flowers for Mass Plantings.

My August garden would contain an abundance of white flowers, not used as dot plants, as one often sees, when they merely agitate everything else in their neighborhood, but rather in broad masses. That arrangement would call for many plants of few kinds, and my personal choice would fall on *Campanula lactiflora alba*, a splendid plant for lightly shaded situations, with a long season of white bellflowers on 2-foot or taller stems; plume poppy, *Bocconia cordata*, with clusters of waving creamy flowers and ornamental tan seeds over beautiful foliage, and the stately *Veronica virginica alba*, whose 4-foot spires (under good culture) during August and September make that season memorable. And then if more whites were needed, I could add the 4-foot snakeroot, *Cimicifuga racemosa*, with its long feathery white plumes during July and August, selecting a moist shady spot for that woodlander. Or if only sunny situations were available, white forms of the balloonflower; musk mallow, *Malva moschata*; Stokes' aster, and statice, as well as Shasta daisies and baby's breath, could be used.

Purple Flowers for Shadows.

The trouble with many sunny borders, it seems to me, is that they



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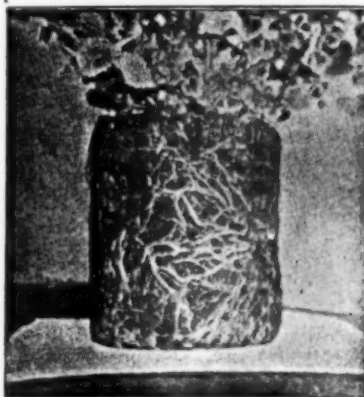
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are seldom relieved by shadow or shadowy effects. Landscape architects often use dark-leaved evergreens, I notice, to create the impression of shadows where the real thing is not present. Purple flowers, especially in dark shades, and deep violet ones have somewhat the same value and are therefore useful for that purpose alone.

Joe-pye weed, *Eupatorium purpureum*, is a good plant, if used in generous clumps in a moist spot, or it can be supplied with water, to bring out the meaning of the foregoing observation. Or try the deep violet *Salvia superba* for the same purpose. This sage will bloom from July until frost, if kept from maturing seeds.

Generous clumps of the gay-feather, *Liatris pycnostachya*, which will grow from two to three feet tall in ordinary soil and five feet under liberal treatment, exemplify one of the most useful plants for the purpose under consideration, adding accent to the border while simulating shadows, and supply splendid cutting material. The big sea lavender, *Statice latifolia*; purple lupines; *Lythrum alatum* for a moist spot, and the violet *Thalictrum dipterocarpum* are the other likely candidates for this role in the August garden.

A Few Red Flowers.

Great masses of red and scarlet are usually merely a strain on the eyes; on the other hand, they are stimulating, bringing out the full value of neutral colors, if used sparingly. That is the greatest value of our native cardinal flower, *Lobelia cardinalis*, as I see these matters. Nature usually uses it in broad masses to good effect, I know, but there are seldom other showy flowers within hailing distance of the boggy spots which it inhabits. Red-hot poker, *Kniphofia pfitzeri*; *Penstemon barbatus*, and scarlet phloxes also come to mind in this connection.

Although we have arrived at our destination, the notes should not be closed without saying that the need for pink and rose shades in the August border may be taken care of among the phloxes, the boltonias and *Tunica saxifraga*, among others. If one had the fortitude to see how lovely magenta can be when it is associated with pale blue, lavender, buff and white, *Dianthus seguieri*; purple loosestrife, *Lythrum salicaria*; some of the bee balms, and callirhoe are ready to supply material for the trial. And that is not all, either, for many other August bloomers not mentioned here await the search of the curious.

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